

DoD 5010.15.1-M VOLUME VIII

STANDARDIZATION OF WORK MEASUREMENT

Defense
Work
Measurement
Standard
Time
Data
Program
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VOLUME VIII STRUCTURAL WORK OCCUPATIONS

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DIRSO 1 Dec 77

CHANGE NO. 1 DOD 5010.15.1-M

STANDARDIZATION OF WORK MEASUREMENT STRUCTURAL WORK OCCUPATIONS

- DoD 5010.15.1-M, Volume VIII, 1 Dec 75, is changed as follows: A. Page v, Part Two, Section I, Line 1: Delete the word "three" and substitute "four."
 - B. Page v, Part Two, Section I: Add the following paragraph:

The Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP Operation/Element Description sequenced by the verb, page D-1.

- C. Add pages D-1 thru D-13 after page C-13.
- This change is an administrative addition of an index for the elements published in the volume.

III. This change sheet will be filed in front of the publication for reference purposes, after changes have been made.

Director

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ASSISTANT SECRETARY OF DEFENSE WASHINGTON, D.C. 20301

18 Jun 75

INSTALLATIONS AND LOGISTICS

FOREWORD

This volume of DoD 5010.15.1-M, "Standardization of Work Measurement," is one of a series published under the authority of DoD Directive 5010.15, Defense Integrated Management Engineering System (DIMES). It provides standard time data for Structural Occupations as classified by Department of Labor codes and includes guidelines for uniform application. Some of the tasks covered in these occupations are assembly of aircraft and vehicles, sheet metal work and welding. Others are oriented to the building trades and include masonry, carpentry, plumbing, and other related occupations.

Maximum use of the guidelines and standard time data is mandatory at each Department of Defense activity where Labor Performance Standards are developed and applied.

All of the included standard time data have been reviewed and approved by a Joint Service/Agency Standard Time Data Group prior to publication.

John J. Bennett

Acting Assistant Secretary of Defense (Installations and Logistics)

DISTRIBUTION

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STANDARD TIME DATA FOR STRUCTURAL WORK OCCUPATIONS

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DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM (DWMSTDP)

STRUCTURAL WORK OCCUPATIONS

PART ONE - GUIDANCE

CHAPTER I - GENERAL INFORMATION

1.1 PURPOSE

This volume of Structural Work Occupations Standard Time Data is one of ten volumes of standard time data in the 11 volume series included in DWMSTDP. Structural Work Occupations as categorized by the Department of Labor includes those occupations concerned with fabricating, erecting, installing, paving, painting, repairing, and similarly working structures or structural parts, such as bridges, buildings, roads, motor vehicles, cables, airplane engines, girders, plates, and frames. The work generally occurs outside a factory or shop environment, except for factory production line occupations. Tools used are hand or portable power tools, and such materials as wood, metal, concrete, glass, and clay are involved. This volume provides a single DoD source for Standard Time Data which can be used in the development of labor standards for:

- 1.1.1 Organizations, activities, or functional areas whose primary missions correlate to structural work occupations, e.g., sheet metal work, welding, electrical assembling and installing, painting, cementing and carpentry.
- 1.1.2 For structural work operations within organizations, activities, or functional areas engaged in other than structural work occupations, e.g., a carpenter constructing a wood frame (aircraft cribbing) in a maintenance activity.
- 1.1.3 Work performed by personnel whose primary jobs are other than structural, but who may actually do that type work as a part of their jobs, e.g., an aircraft mechanic fabricating and installing aircraft cribbing in a maintenance activity.

1.2 SCOPE

This publication applies to all military services and defense agencies. The data contained herein will be used to the maximum extent practicable in the development of labor performance standards in compliance with DoD Directive 5010.15.

1.3 APPLICATION

The Structural Work Occupations Standard Time Data contained in this volume must be applied in accordance with the general information contained in the Basic Volume and the specific instructions contained in this volume.

1.4 SUBMISSION OF NEW DWMSTDP ELEMENTS

All newly developed or existing Structural Work Occupations Standard Time Data not included herein will be submitted with back-up motion pattern analysis to the Defense Industrial and Management Engineering Office (DIMEO) for review and possible inclusion

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in the updating changes to this volume. The Basic Volume contains procedures for submitting this input.

CHAPTER II - CODING

2.1 GENERAL

2.1.1 Information requirements applicable to DWMSTDP have been standardized. Applicable DoD Standard Data Elements have been utilized and all other data elements have been proposed for data representation standardization action in accordance with the provisions of DoD Instruction 5000.12, 'Data Elements and Codes Standardization Procedures' and DoD 5000.12.

2.1.2 The complete coding structure for a Defense Work Measurement Standard Time Data element is explained in the Basic Volume. Figure 1 highlights a typical Occupation Code, Work Category Code, and Work Sub-Category Code for Structural Work data.

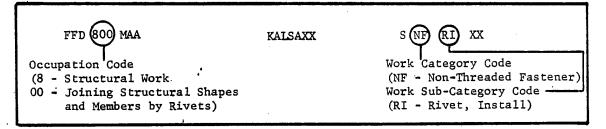


Figure 1 - DWMSTDP Coding Structure

2.2 TYPES OF CODES

2.2.1 Occupation Codes

The Occupation Codes for DWMSTDP elements in this volume conform to the numeric codes of Structural Work Occupations listed in the U.S. Department of Labor Dictionary of Occupational Titles. All Department of Labor Structural Work Occupations are shown in Figure 2. Figure 3 identifies the work ascribed to the specific occupations contained in this volume. There are occasions when a standard time data element may have common application to two or more Divisions of the total 8 Structural Work Occupational Category. If this is the case, an X is used in the Occupation Division position (second numeric) and the Group position (third numeric), e.g., 8XX. If the common application occurs only within the Occupation Division, an X is used in the Group position only (third numeric), e.g., 80X, 82X.

2.2.2 Work Category Code

The two position Work Category Code encircled in Figure 1 further identifies the various types of work performed within the occupation groups. This classification category indicates the major action being performed or major equipment involved in the DWMSTDP element. Figure 4 lists and defines the work categories used in coding Structural Work Occupations standard time data.

2.2.3 Work Sub-Category Code

The two position Work Sub-Category Code encircled in Figure 1 is a sub-division of the Work Category Code and identifies the object, process, or condition associated with the action or equipment. This code is generally oriented to a noun-verb relationship, e.g., "RI" is the code for "Rivet, Install" in the element description header line. However, if the noun-verb sequence in the element code causes a duplication of the code, the sequence has been modified. The noun-verb sequence will remain in the verbage of the element title whenever possible.

2.3 FUNDAMENTAL STANDARD TIME DATA

Every occupation includes general purpose data such as get, place, read or write which are fundamental to each occupation but not specific to any one. These are called "Universal" and are contained in Volume X - Universal Standard Time Data.

8 - STRUCTURAL WORK OCCUPATIONS

(STRUCTURAL WORK)

80 Occupations in Metal Fabricating, N.E.C. (Metal Fabricating, N.E.C.)

800. Riveters

(Riveting)

- 801. Fitting, bolting, screwing, and related occupations (Fitting, bolting, screwing, and related work)
- 804. Tinsmiths, coppersmiths, and sheet metal workers (Sheet metal work)
- 805. Boilermakers

(Boilermaking and related work)

- 806. Transportation equipment assemblers and related occupations (Transportation equipment assembling and related work)
- 807. Bodymen, transportation equipment

(Body work, transportation equipment)

- 809. Miscellaneous occupations in metal fabricating, n.e.c. (Miscellaneous metal fabricating, n.e.c.)
 - 81 Welders, Flame Cutters, and Related Occupations (Welding, Flame Cutting, and Related Work)
- 810. Arc welders

(Arc welding)

811. Gas welders

(Gas welding)

- 812. Combination arc welders and gas welders (Combination arc and gas welding)
- 813. Resistance welders

(Resistance welding)

- 814. Brazing, braze-welding, and soldering occupations (Brazing, braze-welding, and soldering)
- 815. Lead burning occupations

(Lead burning)

816. Flame cutters and arc cutters

(Flame and arc cutting)

- 819. Welders, flame cutters, and related occupations, n.e.c. (Welding, flame cutting, and related work, n.e.c.)
 - 82 Electrical Assembling, Installing, and Repairing Occupations (Electrical Assembling, Installing, and Repairing)
- 820. Occupations in assembly, installation and repair of generators, motors, accessories, and related powerplant equipment

(Generator, motor, and related powerplant equipment assembly, installation, and repair)

n.e.c. - not elsewhere classified

Figure 2 - Structural Work Occupations Codes

```
Occupations in assembly, installation, and repair of transmission and dis-
      tribution lines and circuits
          (Transmission and distribution line and circuit assembly, installation
          and repair)
     Occupations in assembly, installation, and repair of wire communication,
822.
     detection, and signaling equipment
          (Wire communication, detection, and signaling equipment assembly, instal-
          lation, and repair)
     Occupations in assembly, installation, and repair of electronic communication,
823.
      detection and signaling equipment
          (Electronic communication, detection, and signaling equipment assembly,
          installation, and repair)
     Occupations in assembly, installation, and repair of lighting equipment and
      building wiring, n.e.c.
          (Lighting equipment and building wiring assembly, installation, and
          repair, n.e.c.)
825. Occupations in assembly, installation and repair of transportation and
      materials handling equipment, n.e.c.
          (Transportation and materials handling equipment assembly, installation,
          and repair n.e.c.)
826. Occupations in assembly, installation, and repair of industrial apparatus, n.e.c.
          (Industrial apparatus assembly, installation, and repair, n.e.c.)
827. Occupations in assembly, installation, and repair of large household appliances
      and similar commercial and industrial equipment
          (Large household appliance and similar commercial and industrial equipment
          assembly, installation and repair)
      Occupations in fabrication, installation, and repair of electrical and electronic
828.
      products, n.e.c.
          (Electrical and electronic product fabrication, installation, and repair,
      Occupations in assembly, installation, and repair of electrical products, n.e.c.
829.
          (Assembly, installation, and repair of electrical products, n.e.c.)
      84 Painting, Plastering Waterproofing, Cementing, and Related Occupations
             (Painting, Plastering, Waterproofing, Cementing, and Related Work)
      Construction and maintenance painters and related occupations
840.
          (Construction and maintenance painting and related work)
841.
      Paperhangers
          (Paperhanging)
      Plasterers and related occupations
842.
          (Plastering and related work)
      Waterproofing and related occupations
843.
          (Waterproofing and related work)
      Cement and concrete finishing and related occupations
844.
           (Cement and concrete finishing and related work)
      Transportation equipment painters and related occupations
845.
           (Transportation equipment painting and related work)
      Painting, plastering, waterproofing, cementing, and related occupations, n.e.c.
849.
           (Painting, plastering, waterproofing, cementing, and related work, n.e.c.)
 n.e.c. - not elsewhere classified
```

Figure 2 - Structural Work Occupations Codes (Continued)

```
85 Excavating, Grading, Paving, and Related Occupations
             (Excavating, Grading, Paving, and Related Work)
850. Excavating, grading, and related occupations
          (Excavating, grading, and related work)
851. Drainage and related occupations
          (Drainage and related work)
852. Concrete paving occupations
          (Concrete paving)
853. Asphalt paving occupations
          (Asphalt paving)
859. Excavating, grading, paving, and related occupations, n.e.c.
          (Excavating, grading paving, and related work, n.e.c.)
      86 Construction Occupations, N.E.C.
             (Construction Work, N.E.C.)
860.
     Carpenters and related occupations
          (Carpentry and related work)
      Brick and stone masons and tile setters
861.
          (Brick and stone masonry and tile setting)
      Plumbers gas fitters, steam fitters, and related occupations
862.
          (Plumbing, gas fitting, steam fitting, and related work)
     Asbestos and insulation workers
863.
          (Asbestos and insulation work)
      Floor laying and finishing occupations
864.
          (Floor laying and finishing work)
865.
      Glaziers and related occupations
          (Glass setting and related work)
866. Roofers and related occupations
          (Roofing and related work)
869. Miscellaneous construction occupations, n.e.c.
          (Miscellaneous construction work, n.e.c.)
      89 Structural Work Occupations, N.E.C.
             (Structural Work, N.E.C.)
891. Occupations in structural maintenance, n.e.c.
          (Structural maintenance, n.e.c.)
892. Hoisting and conveying occupation, n.e.c.
          (Hoisting and conveying, n.e.c.)
899. Miscellaneous structural work occupations, n.e.c.
          (Miscellaneous structural work, n.e.c.)
n.e.c. - not elsewhere classified
```

Figure 2 - Structural Work Occupations Codes (Continued)

	DWMSTDP STRUCTURAL WORK	OCCUPATIONS CODES
Code	Occupation	Work Description
800	Riveters (Riveting).	Joining structural shapes and members by rivets.
804	Tinsmiths, coppersmiths, and sheet metal workers (Sheet metal work).	Laying out, cutting to size, bending or shaping, and soldering, brazing, riveting, or crimping sheet metal, such as copper, steel, aluminum, galvanized iron, and tinplate, to fabricate or repair sheet metal items, such as gutters, hot and cold air vents, cabinets, and light tanks.
807	Bodymen, transportation equipment (Body work, transportation equipment).	Repairing body members, parts, components, and attachments for such transportation equipment as automobiles, aircraft, rail equipment, motorcycles, boats, and military tanks.
809	Miscellaneous occupations in metal fabricating, n.e.c. (Miscellaneous metal fabricating, n.e.c.).	Fabricating structures from metal and related materials, not elsewhere classified.
810	Arc welders (Arc welding).	Welding, using electric welding equip- ment which achieves welding temperature and jointure by passing electric current across an air gap between the workpiece and a manually or mechanically guided electrode.
811	Gas welders (Gas welding).	Welding, using gas-welding equipment.
813	Resistance welders (Resistance welding),	Welding with welding equipment that passes an electric current through work-piece to achieve welding temperature and jointure without filler material.
814	Brazing, braze-welding, and soldering occupations (Braz-ing braze-welding and soldering).	Brazing, braze-welding, or soldering, using electric or gas fired ovens and equipment.
816	Flame cutters and arc cutters (Flame and arc cutting).	Severing or trimming materials, using gas flame or electric-arc cutting equipment.

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes

n.e.c. - not elsewhere classified

	DWMSTDP STRUCTURAL WORK	K OCCUPATION CODES
Code	Occupation	Work Description
821	Occupations in assembly, instal- lation, and repair of trans- mission and distribution lines and circuits (Transmission and distribution line and circuit assembly, installation and repair).	Erecting and repairing powerlines and circuits for transmission and distribution of electricity, and assembling and erecting related equipment and structures.
823	Occupations in assembly, installation, and repair of electronic communication, detection and signaling equipment (Electronic communication, detection, and signaling equipment assembly, installation, and repair).	Assembling equipment components; con- necting and testing circuitry; install- ing equipment to provide electronic communication, detection, signaling, recording, analyzing, and computing services; and making on-site repairs in buildings, ships, trains, and air- craft.
824	Occupations in assembly, installation, and repair of lighting equipment and building wiring, n.e.c. (Lighting equipment and building wiring assembly, installation, and repair, n.e.c.).	Wiring buildings and adjacent yards to provide electricity for power and lighting; assembling and installing lighting equipment, conduit switches, junction and fuse boxes, and related accessories and controls; and repairing wiring and components, not elsewhere classified.
825	Occupations in assembly, installation and repair of transportation and materials handling equipment, n.e.c (Transportation and materials handling equipment assembly, installation, and repair n.e.c.).	Wiring and repailing electrical power units and controls for transportation and material-handling equipment, and adjusting or repairing electrical components and circuits, not elsewhere classified.
829	Occupations in assembly, installation, and repair of electrical products, n.e.c. (Assembly, installation, and repair of electrical products, n.e.c.).	Assembly, installing, erecting, and repairing electrical equipment and related structures not elsewhere classified.
844	Cement and concrete finishing and related occupations (Cement and concrete finishing and related work).	Covering, leveling, and smoothing cement and concrete surfaces.
n.e.c n	not elsewhere classified	

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes (Continued)

DWMSTDP STRUCTURAL WORK OCCUPATION CODES					
Code	Occupation	Work Description			
845	Transportation equipment, painters and related occupations (Transportation equipment painting and related work).	Applying paint, asphalt undercoatings and related materials to transportation equipment including automobiles, trucks, trailers, aircraft and railway cars.			
853	Asphalt paving occupations (Asphalt paving).	Combining asphaltic ingredients at mobile batching plants; applying asphalt to roadbeds and other substructures; and shaping and finishing asphalt; involves operating or tending machines for mixing, spreading, compacting, and leveling paving materials, and using rakes, shovels, and other devices.			
860	Carpenters and related occupations (Carpentry and related work).	Preparing and installing wooden structures and structural members, using band saws, ripsaws, planers, braces, hammers, and other carpentry tools and woodworking machines.			
861	Brick and stone masons and tile setters (Brick and stone masonry and tile setting).	Preparing and laying brick, concrete block, tile, marble, and related materials, using chisels, hammers, trowels, and other handtools and implements.			
862	Plumbers, gas fitters, steam fitters, and related occupations (Plumbing, gas fitting, steam fitting, and related work).	Assembling and installing gas, steam, plumbing, and related fixtures, pipes, and fittings in structures, using pipecutting and pipe-threading tools, welding equipment, and other pipefitting tools and equipment.			
863	Asbestos and insulation workers (Asbestos and insulation work).	Covering and lining structures with asbestos, cork, canvas, tar paper, magnesia, and related materials, using saws, knives, rasps trowels, and other tools and implements.			
864	Floor laying and finishing occupations (Floor laying and finishing work).	Installing inlaid, hardwood, or composition floors, and laying asphalt, cork, linoleum, and rubber blocks or sheet materials, using rollers, knives trowels, sanding machines, and other devices.			
Ì		•			

n.e.c. - not elsewhere classified

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes (Continued)

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DWMSTDP STRUCTURAL WORK OCCUPATIONS CODES						
Code	Occupation	Work Description				
865	Glaziers and related occupations (Glass setting and related work).	Preparing and setting glass in structures, using bolts, screws, putty, grinding and buffing wheels, glass-cutting tools, and other materials and devices				
866	Roofers and related occupations (Roofing and related work).	Covering roofs and exterior walls of structures with slate, asphalt, aluminum, wood, and related materials, using brushes, knives, punches, hammers, and other tools.				
n.e.c.	- not elsewhere classified					

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes (Continued)

STRUCTURAL WORK OCCUPATIONS WORK CATEGORY CODES					
Work Category	Code	Definition			
Actuate	AC	Manual manipulation of an object for engaging, disengaging, starting or stopping a device, (Examples: crank, dial, set with knob, move lever.)			
		The process of manipulating an object by cranking, turning, or moving through a fixed part.			
·		Putting something else in action by handling a switch or control.			
Body Motion	ВМ	Gross foot, leg, and body movement (other than basic manual and eye motions). (Examples: leg motion, horizontal change, sit and stand, vertical change, walk.)			
Clean	CL	The removal of foreign matter by chemical, mechanical, or manual process. (Examples: ultrasonic cleaning, abrasive cleaning, use of solvent, rubbing, wiping, sweeping.)			
Clamp	CP	The action required to accomplish the nonmanual holding of object(s) with a clamp when required for repairing, modifying, manufacturing or assembly operations. (Examples: "C", cleco, spring, hose, cable, conduit clamps, etc.)			
Disassembly/Assembly	DA	The action(s) required to remove, install or replace assemblies or components parts when the primary purpose is to place an			
		object(s) or part(s) on or into another object or part so that they fit, connect or are secured to each other to form a unit. These actions do not include fabrication of parts or items. This category generally applies to special or higher level data.			
Equipment - Metalworking	EM	The operation or preparation for operation of any powered stationary-mounted metal working machine or equipment used for the act or process of making or changing an object of metal. (Examples: metal lathe, milling machine, powered hacksaw)			

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data

STRUCTURAL WORK OCCUPATIONS WORK CATEGORY CODES				
Work Category		Code	<u>Definition</u>	
Fabricate		FA	The actions required to manufacture, form or produce an item from raw or new material by shaping, cutting or forming by hand or mechanical means. This category generally applies to special or higher level data.	
Gauge and Measure		GM	The procedure by which the size amount extent, or capacity of an item is determined. (Examples: bisect, gauge, mike, square, weigh)	
Inspect and Test		IT	The procedure or action by which an item is subjected to comparisons or measurements to determine its qualities for use. (Examples: use of bore indicating gauge, use of micrometers, use of feeler gauge, eye times, check mandrel for run-out)	
Job Preparation		JP	The actions required to prepare an object(s), work place, or employee, or any combination of the three for ensuing work. NOTE: Excluded from this category are layout, packaging and machine setup.	
Layout		LO	Laying out straight lines or radii including drawings or scribing on any appropriate material. (Examples: measuring with scale or tape to locate points by intersecting lines, chalk-line layout, surface preparation using layout dye.)	
Material Handling	Devices	МН .	The process of locating, relocating, positioning, and aligning mechanical devices such as conveyors, pallet jacks, hoists, carts, slings, etc., for the purpose of moving objects or moving the devices out of the way.	
Non-threaded Fast	ener	NF	The permanent or semipermanent holding or locking of mating objects by other than threads or clamping actions.	

Figure 4 - Major Categories of Work Used in Coding Strucutral Work Occupations Data (Continued)

STRUCTURAL WORK	OCCUPATIONS	WORK CATEGORY CODES
Work Category	Code	<u>Definition</u>
Object Handling	OH	The process of manually moving an object for the purpose of changing its location, position, or alignment. The movement path may or may not be fixed. The primary purpose of this handling is not to activate another object or device.
Paint	PA	To cover a surface by applying and spreading liquid or paste with a brush, spray gun, or roller. (Examples: paint, varnish lacquer, shellac, wax.)
Process Time	PT	The interval of time made up of a combination of manual and machine time components, so integrated that it would be impossible or impractical to separate and analyze them with Methods Time Measurement. Process time may be obtained by stopwatch, manufacturers' specs or formulae.
Surface Repair	SR	The process by which the surface of an object is changed or modified to restore the object to a serviceable condition. This category does not include removal or installation of the object to be repaired. This category generally applies to special or higher level data.
Setup	SU	The initial preparation of machinery and/or powered equipment necessary to perform work on an object and/or the subsequent "Tear Down."
Threaded Fastener	TF	Tightening or loosening a threaded objectbolt, nut, screw, or hand-knob by hand. (Examples: fingerturn-per thread, spin, tighten or loosen-moderate pressure.)
Tool Use Hand Operation - Non-powered	TL	The use or preparation for use of any non-powered implement, instrument or utensil held in the hand and used for cutting, hitting, digging, rubbing, etc. (Examples: knife, saw, hammer, shovel, rake, prybar, needle for sewing.)

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data (Continued)

STRUCTURAL	WORK	OCCUPATIONS WORK CATEGORY CODES
Work Category	Code	<u>Definition</u>
Tool, Powered - Hand-held	TP	The use or preparation for use of any hand-held tool which derives its primary power for operation from a source other than the operator or user. (Examples: electric portable saw, portable pneumatic wrench.)
Vising	VS	The action required to accomplish the nonmanual holding of object(s) with a vise while repairs, modifications, or manufacturing operations are being performed. (Examples: tighten or loosen vise, rotate vise, quick acting vise.)
Wire Handling	WH.	Elements of work associated with the build up, installation, or repair of circuitry such as electrical, electronic, or telephonic.

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data (Continued)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM (DWMSTDP)

STRUCTURAL WORK OCCUPATIONS

PART TWO - STANDARD TIME DATA

SECTION I - INDEXES

This provides four indexes as follows:

The Occupation Code Index which includes the page location for each Code in both the DWMSTDP Element Listing, Pages A-1 through A-3.

The DWMSTDP Element Index which is sequenced according to the DWMSTDP Element Code, pages B-1 through B-14.

The Noun/Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP operation/element description, pages C-1 through C-13.

The Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP Operation/Element Description sequenced by the verb, page D-1.

OCCUPATION CODE INDEX

Codo	Occupation	DWMSTDP Element Index	Page DWMSTDP <u>Element Listing</u>
Code		B-1	1
8XX	Structural Work, Common		2 .
80X	Metal Fabricating, Common	B-1	2 .
800	Riveters (Riveting).	B-1	7
804	Tinsmiths, coppersmiths, and sheet metal workers (Sheet metal work).	B-2	12
807	Bodymen, transportation equip- ment, (Body work, transportation equipment).	B-2	13
809	Miscellaneous occupations in metal fabricating, n.e.c. (Miscellaneouse metal fabricating, n.e.c.).	B-5	32
81X	Welders, Flame Cutters, and Related Occupations (Welding, Flame Cutting, and Related Work).	B-5	33
810	Arc welders (Arc welding).	B-6	39
811	Gas welders (Gas welding).	B-7	40
813	Resistance welders (Resistance welding).	B-7	41
814	Brazing, braze-welding, and soldering occupations (Brazing braze welding and soldering).	B-7	41
816	Flame cutters and arc cutters (Flame and arc cutting).	B-7	41
8 2 X	Electrical Assembling, Installing and Repairing Occupations (Electrical Assembling, Installing, and Repairing), Common	, B-7	43

OCCUPATION CODE INDEX

<u>Code</u>	Occupation	Page DWMSTDP Element Index	DWMSTDP Element Listing
821	Occupations in assembly, installation, and repair of transmission and distribution lines and circuits (Transmission and distribution line and circuit assembly, installation and repair).	B-8	48
823	Occupations in assembly, installation, and repair of electronic communication, detection and signaling equipment (Electronic communication, detection, and signaling equipment assembly, installation, and repair.	В-9	51
824	Occupations in assembly, in- stallation, and repair of light- ing equipment and building wiring, n.e.c. (Lighting equip- ment and building wiring assembly, installation, and repair, n.e.c.).	в-9	51
825	Occupations in assembly, installation and repair of transportation and materials handling equipment, n.e.c. (Transportation and materials handling equipment assembly, installation, and repair n.e.c.).	в-9	
829	Occupations in assembly, installation, and repair of electrical products, n.e.c. (Assembly, installation, and repair of electrical products, n.e.c.).	в-9	53
844	Cement and concrete finishing and related occupations (Cement and concrete finishing and related work).	B-9	54

OCCUPATION CODE INDEX

C <u>ode</u>	Occupation	DWMSTDP <u>Element Index</u>	Page	DWMSTDP Element Listing
845	Transportation equipment, painters and related occupations (Transportation equipment painting and related work).	B-9		55
853	Asphalt paving occupations (Asphalt paving).	B-10		55
86X	Construction Occupations (Construction Work), Common	B-10		56
860	Carpenters and related occupations (Carpentry and related work).	B-10		59
861	Brick and stone masons and tile setters (Brick and stone masonry and tile setting).	B-11		62
862	Plumbers, gas fitters, steam fitters, and related occupations (Plumbing, gas fitting, steam fitting, and related work).	B-12		64
863	Asbestos and insulation workers (Asbestos and insulation work).	B-13		69
864	Floor laying and finishing occupations (Floor laying and finishing work).	B-13		70
865	Glaziers and related occupations (Glass setting and related work).	B-13		70
866	Roofers and related occupations (Roofing and related work).	B-13		71

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
8XX	MAO	MCPCIXX	VARIABLE	CLAMP(BAR), INSTALL AND REMOVE	1
8XX	MAF	MGMR LOI	317	RULE, USE TO MEASURE	
9XX	MAF	MJPOCO1	211	DIE, CHANGE IN STOCK, HAND THREADING DIE	
8XX	MAF	MJPG TO1	130	GAS, TURN ON, LIGHT, AND TURN OFF, GAS BURNER FOR HEATING SOLDERING IRON-OR SIMILAR	
8XX	MAA	SJPDIOL	802	DIE, INSTALL IN AND REMOVE FROM DIE STOCK, THO SETSCREWS SECURING	
8 X X	MAF	SJPPP01	363	POUCH(TOOL).PUT AROUND WAIST WITH STRAP AND REMOVE	
9 X X	MAW	MLOLMXX	VARIABLE	LINE, MARK WITH CHALK LINE	
8 X X	AAM	TLOLIXX	TABLE	LINE, INSCRIBE, CIRCULAR, USING FINGER AS A GUIDE	2
8XX	MAF	MOHEMOL	347	LADCER (EXTENSION), MOVE, WEIGHT TO 60 POUNDS	
вхх	MAF	MOHLMO2	440	LADCER(EXTENSION), MOVE, LADDER 20 FEET LONG	
яхх	МДД	MTLHPXX	VARIABLE	HOLE, PUNCH WITH PORTABLE PUNCH	
8XX	MAF	MTLR RO1	. 54	RATCHET, REVERSE ON THREADING TOOL	
ахх	MAF	STPCC01	243	CHISEL, CHANGE IN PNEUMATIC HAND CHIPPER	
80 X	MAA	MGMHG 01	178	HOLE, GAUGE TO DETERMINE RIVET LENGTH	
80X	MAA	SJPT SO1	1638	TOOL(AIRLOC), SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD	3
зох	MAA	SJPTS02	353	TOOL (PNEUMATIC SQUEEZE), SET UP AND ASIDE, FOR INSTALLATION OF PIN IN AIRLOC STUD	•
вох	MAA	MNFFLXX	VARIABLE	FASTENER (CAMLOC), LOOSEN	
зох	MAA	MNFFTXX	VARIABLE	FASTENER (CAMLOC) . TIGHT EN	•
зох	MBA	SNFFIXX	VARIABLE	FASTENER (HIGH STRENGTH). INSTALL	4
80X	MBA	SNFFRXX	VARIABLE	FASTEMERS (HIGH STRENGTH). REPLACE	5
80X	MAA	SNFFSXX	VARIABLE	FASTENER (TURNLOCK). SEAT AND TIGHTEN	
90X	MAA	SNFFUXX	VARIABLE	FASTENER (TURNLOCK), UNLOCK	
80X	MAA	SNELIXX	VARIABLE	LOCK(WEDGE), INSTALL	
sox	МВА	SNFLROL	231	LOCK(WEDGE) REMOVE WITH PNEUMATIC TOOL	5
8CX	MAA	MTLFUXX	VARIABLE	FINDER (HOLE) . USE . LEAF TYPE	
вох	мдд -	MTLHRXX	VARIABLE	HOLE, REAM WITH HAND REAMER	
асх	MUA	STLACXX	VARIABLE	ALUMINUM.CUT WITH COMPOUND LEVER SNIPS.PER LINEAR INCH	
30 X	маа	STLLRXX	VARIABLE	LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG	
80×	MA F	STLMCXX	VARIABLE	METAL, CUT WITH SNIPS, PER INCH, SHEET METAL	7
300	MAA	TEMHOXX	TABLE	HOLE, DIMPLE (COLD AND HOT)	
800	ДДМ	SITRIOL	226	RIVET, INSPECT WITH LIGHT	
800	МАД	SITRIO2	370	RIVET, INSPECT WITH LIGHT AND MIRRUR	
900	маа	SJPGSOL	424	GUN(RIVET), SET UP, INITIAL	

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
300	MAA	SJPG S 0 2	173	GUN(RIVET), SET UP, CHANGE RIVET SET	7
9 0 C	MAA	SNFCRXX	VARIABLE	RIVET, CUT PROTUDING HEAD WITH RIVET JUN AND CHISEL	9
800	MAA	SMFDRXX	VARIABLE	RIVET. DRIVE OUT WITH HAMMER AND PIN PUNCH, 2- MAN OPERATION	
800	MUA	SNEFRXX	VARIABLE	FASTENER(BLIND), RFMOVE, DEUTSCH CRIVE PIN RIVET	
300	MAA	SNF I R X X	VAFIABLE	RIVET (DEUTSCH DRIVE PIN), INSTALL, ALL SIZES	
800	MAA	SNFRDXX	VARIABLE	RIVET, ORILL AND REMOVE, COUNTERSUNK OR UNIVERSAL HEAD	9
800	444	SNERIXX	VARIABLE	RIVET, INSTALL	
900	MAA	SNER 107	693	RIVET.INSTALL.COLLARED FASTENER.3/16-1/4 INCH DIAMETER.FIRST RIVET	
800	MAA	SNERICB	335	RIVET, INSTALL, COLLARED FASTEHER 3/16-1/4 INCH DIAMETER, ADDITIONAL RIVET	
800	млд	SNFRIC9	703	RIVET(HI-SHEAR), INSTALL, FIRST	10
800	маа -	S4FR [10	466	RIVET(HI-SHEAR), INSTALL, ADDITIONAL	
800	MQA	SNER [11	525	RIVET, INSTALL, BLIND, PULLED, ALL TYPES, FIRST	
800	MAA	SNERILZ	445	PIVET, INSTALL, BLIND, PULLED, ALL TYPES, EACH ADDITIONAL RIVET	
800	MAA	SNERKXX	. VARTABLE	RIVET, KNOCK DUT, COLLARED FASTENEP, ALUMINUM	•
ioc	MUA .	SNEFRXX	VARIABLE	RIVET, REMOVE, SOLID, DRIVEN	11
900	TAA	ВРТМНХХ	VARIABLE	METAL, HEAT WITH DIMPLING DIE	
800	TAA	PTR SOI	257	RIVET, SET WITH PNEUMATIC GUN, PROCESS TIME ONLY ,	
800	МДД	SSUDSOL	3359	DIMPLE MACHINE, SET UP (CDD)	
800	МАА	SSUGAOL	. 1121	GAP(DIE).ADJUST(DIMPLING MACHINE-COLO)	12
800	MAA	1024022	4624	MACHINE(HOT DIMPLE), SET UP	
900	MAA	STLOFXX	VARIABLE	DIMPLE(COLD), FORM WITH HAND DIMPLER	
904	MAF	МЭНРРXX	VARIABLE	PIECES, POSITION TO ASSEMBLE PITTSBURGH LUCK SEAM	
807	MUA	SFACHXX	VARIABLE	HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, RECTANGULAR ACCESS HULE	13
307	MUA	SFADFXX	VARIABLE	DOUBLERIOR FILLER), FABRICATE, FLAT CIRCULAR	
8C 7	MUA	SFAFFXX	VARIABLE	FILLER(OR DOUBLER), FABRICATE, FLAT RECTANGULAR, TO .064 INCH THICK	14
307	MUA	SFAHCXX	VARIABLE	HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE	
807	MAA	MUPTPOL	922	TCCLS, PREPARE FOR JO-BOLT INSTALLATION	15
307	MBA	SUPCIOI	1330	CARTRIDGE(SEALANT), INSTALL IN AND REMOVE FROM GUN	
ac 7	мда	MARGRXX	PJ8A19AV	GREMMET (AND STUD), REMOVE, DZUS FASTENER, MANUAL MOTIONS ONLY	
307	MUA	SMFCCXX	VARIABLE	COLLAR, CUT FROM DRAW TYPE SHEAR PIN	16

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
807	MAA	SNFFI 01	497	FASTENER(ANCHORED), INSTALL MISSING FLUATING OR CHANNEL NUT ONLY, ALL TYPES, FIRST PIECE	16
807	MAA	SNFF I 02	454	FASTENER(ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, ADDITIONAL PIECE	•
807	AUM	SNFF I 03	3610	FASTENER(ANCHORED).INSTALL CAMLOC OR AIRLOC RECEPTACLE.OR DZUS SPRING.1-MAN OPERATION. FIRST PIECE	17
807	AUM	SNFF I 04	1840	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLJC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, ADDITIONAL PIECE	
807	MUA	SNFF [05	5770	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 2-MAN OPERATION, FIRST PIECE:	
807	MUA	SNFF I 06	3250	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, 2-MAN OPERATION, ADDITIONAL	18
807	MUA	SNFF I 07	18850	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	
807	MUA	SNFF I 08	4530	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH	
807	MUA	SNFF I 09	14970	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	
807	MUA	SNFF I 10	2880	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE—NUT LENGTH	•
807	MUA	SNFFI11	5390	FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE	. 19
807	AUM	SNFF [12	3180	FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL	
807	MUA	SNFFPXX	VARIABLE	FASTENER(ANCHORED), PREPARE HOLE AND INSTALL	20
807	AUM	SNFFRXX	VARIABLE	FASTENER(ANCHORED), REPLACE	21
807	МВА	SNEGIXX	VARTABLE	GROMMET (CAMLOC), INSTALL WITH SNAP RING	
807	МДА	SNEGRXX	VARIABLE	GROMMET (CAMLOC), REMOVE, SECURED WITH SNAP RING	
807	AAM	SNEIGXX	VARIABLE	GROMMET(AND STUD), INSTALL, DZUS FASTENEK, USING PNEUMATIC FLOOR DIMPLER	22
807	MAA	SNFINXX	VARIABLE	NUT (CHANNEL), INSTALL	
8C7	MBA	SNFISXX	VARIABLE	STUD(AIRLOC). INSTALL, PER STUD	
807	MAA	SNFN LXX	VARIABLE	NUT (ANCHOR) + INSTALL IN EXISTING HOLES, EASY ACCESS	
807	MAA	SNFNI 03	4502 -	NUT(ANCHOR), INSTALL, DRILL NEW HÖLES USING Anchor nut as drill guide, first nut, easy access	23
807	MAA	SNFN I 04	2863	- NUT (ANCHOR), INSTALL, EASY ACCESS, OR ILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, EACH ADOLT IONAL NUT	
807	MBA	SNFN 1 0 5	4039	NUT(ANCHOR), INSTALL WITH TWO RIVETS, FIRST MUT (USE DRILL JIG TO LOCATE ATTACH HOLES)	

DUCUP+	QUAL ITY	DW4STDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION .	PAGE
907	мвд	SNFN I O o	1448	NUT(ANCHOR), INSTALL WITH TWO RIVETS, ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES)	23
807	AUM	SNEPTOL	458	PIN(DRAW TYPE SHEAR), INSTALL	24
807	МДД	SHEREXX	VAPIAPLE	FASTENER(ANCHORED), REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY	
907	MAA	SNFR SXX	VAPIABLE	STUDIAIRLOC), REMOVE PIN WITH AIRLOS TOOL	
807	MA A	SNFSIXX	VARIABLE	STUC(CAMEDC), INSTALL WITH CAMEDC PLIERS, NO RETAINING WASHER	
907	MAA	SNF S I 0 3	318	STUD(STRESS HEAD CAMLOC), INSTALL, PER STUD	
807	MAA	SNESRXX	VARIABLE	STUC(CAMLOC), REMOVE, NO RETAINING WASHER	
807	MAA	SNF = 1 01	325	WASHER (SPLIT), INSTALL ON CAMLOC STUD ASSEMBLY	
807	₩ 4 Æ	SNFWI 02	274	WASHER(SOLID), INSTALL ON CAMLOC STUD ASSEMBLY	25
807	мад	SNEWGOI	140	WASHER(SPLIT).REMOVE FROM CAMLOC STUD.PER WASHER	
807	AAT	BPTACOL	1591	ALUMINUM,CUT WITH DISC, ROUTER OR SIMILAR MOUNTED IN PROCESS TIME ONLY	
807	TAA	- RPTACC2	1985	ALUMINUM, CUT WITH SAW MOUNTED IN PREUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING	
307	TAA	8PT8501	50	BOLT (HUCK LOCK), SET WITH PULL TYPE GUN	
907 '	TάΔ	BPTC SO1	153	COLLAR(RIVET), SPLIT WITH PNEUMATIC RIVET GUN. PROCESS TIME ONLY	
907	TAA	BPTJI 01	49	JO-BOLT, INSTALL WITH PNEUMATIC TODE	
807	TUA	SSRSAXX	VAPIABLE	SEALANT, APPLY WITH PNEUMATIC SEALANT GUN	26
907	MAA	MTFFIXX	VARIABLE	FASTNER(ANCHORED), INSTALL RIV-NUT, MANUAL MOTIONS ONLY	
907	мва	STEBIXX	VARIABLE	SOLT(HI-LOK).INSTALL WITH MANUAL TOULS	
9C7	МАД	STF81C7	473	BULT(HI-LOK), INSTALL, POWER TOOL'S, FIRST	27
807	МДД	80187T2	390	BOLT(H[=LOK), INSTALL, POWER TOOLS, ADDITIONAL	
ac7	МВД	STEBRXX	VARIABLE	BOLT(H[-LOK), REMOVE, MANUAL TOOLS	
807	MBA	STECIXX	VARIABLE	COLLAR(HI-LOK BOLT), INSTALL, MANUAL TOOLS	
807	MBA	STECRXX	VARIABLE	COLLAR(HI-LOK BOLT), REMOVE, MANUAL TOOLS	28
807	MAA	STFFIOL	883	FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, FIRST PIECE	
907	MAA	STF# 1 02	730	FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ACDITIONAL PIECE	
807	MUA	STFF I 03	610	FASTENER(ANCHORED), INSTALL RIV-NUT, FIRST PIECE	
8C7	MUA	STFF I C4	550	FASTEMER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL	29
907	MAA	STFFRXX	VARIABLE	FASTENER(ANCHORED), REMOVE DILL NUT	
807	MBA.	STFIBXX	VARIABLE	BOLT(HI-TORQUE), INSTALL WITH PNEUMATIC TOOL, PER BOLT	,
807	MAA	STF I BO3	1069	BOLT(HI=TORQUE), INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION	

OCCUP- ATION	YTIJAUQ	DWMSTDP ELSMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAG=
807	MAA	STF 1804	1535	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS I'V	. 29
307	MAA	STFIJXX	VARIABLE	JO-BCLT, INSTALL WITH HAND TOOL	. 30
907	MUA	STFJIXX	VARIABLE	JO-BOLT, INSTALL WITH AROLJO-BOLT SUN MJUEL 7 OR SIMILAR	
807	МДД	STFJ103	631	JO-BOLT, [NSTALL, CBSTRUCTED, USE JO-BULT SET	
8C7	MUA	STFJRXX	VARIABLE	JO-8CLT, REMOVE	
807	MAA	STERJXX	VARTABLE	JO-BOLT, REMOVE	31
eC7	МВД	STLACXX	VARIABLE	AREA(DAMAGED).CUT AWAY.ALUMINUM ALLDY TO .064 INCH THICKNESS.CIRCULAR AREA	
807	TUA	STLA SXX	VARIABLE	ALUMINUM, SAW WITH JEWELER'S OR SKIN SAM, PER STRAIGHT LINEAR INCH	32
807	МВД	STLCAXX	VARIABLE	AREA(DAMAGED), CUT AWAY, ALUMINUM ALLDY TO . J64 INCH THICKNESS, RECTANGULAR AREA	-
807	MAÄ	STLDRXX	VARTABLE	DENT, REMOVE FROM ALUMINUM TO .U64 INCH THICKNESS, PER SQUARE INCH	
809	MAF	XXZTALM	VARIABLE	TRAMMEL.SET TO SCALE	
809.	MAF	MTLDUOI	152	DIVIDERS, USE TO SCRIBE 90-DEGREE ARC	33
8C 9	MAF	MTLTU01	328	TRAMMEL, USE TO SCRIBE 90-DEGREE ARC. JNE OPERATOR, 36-INCH RADIUS	
91X	MAW	MACAA01	55	AMPERAGE, ADJUST ON AC OR DC WELDING MALHINE	
81X	MAO	MACCAGI	56	CONTROLS(HEAT), ADJUST ON WELDING MACHINE	
81X	MAF	MACKOC1	93	KNOB. OPEN ON ACETYLENE TORCH TIP	*
31X	MAW	MACMTOL	74	MACHINE(WELDING).TURN ON OR OFF	
81X	MAW	MAC VTO1	69	VALVELACETYLENE AND UXYGEN 1. TURN JFF	
81X	MAF	MCLSCXX	VARIABLE	SLAG, CHIP WITH CHIPPING HAMMER, CHISEL, AND BRUSH	
81X	MAF	MCLSKXX	VARTABLE	SCALE, KNOCK FROM WELD WITH HAMMER AND BRUSH	34
91x	MAO	MCLSRXX	VARIABLE	SLAG, REMOVE AITH CHIPPING HAMMED	÷
91X	MA∩	₩CLSS01	30	SPATTER+SCRAPE PER INCH OF WELD	
alx	MAA	MCLTCXX	VARIABLE	TIP. CLEAN WITH SANDPAPER, WELDING GUN	
81X	MAF	MCLTC03	224	TIP, CLEAN WITH EMERY CLOTH WRAPPED ARGUND FILE, SPOT WELDER	
81X	AGT	MCLTD01	728	TIP(ELECTRODE-WELDER), DRESS	
81×	MAC	MGMPC 01	143	PART, CHECK FOR WARPAGE WITH 12-INCH SCALE	
81X	МАА	MJPCCOl	546	CABLE(ELECTRODE HOLDER), CONNECT/CISCUNNECT TO/FROM ARC WELDER	
81X	МДД	MUPECOL	350	ELECTRODE(TUNGSTEN), CHANGE IN TORCH	. 35
81X	MAW	MJPFA01	94	FLAME, ADJUST ON HAND TORCH	
81X	MAO	MJPGP01	110	GOGGLES (BURNING) . PUT ON AND REMOVE	
81X	МДД	10AH9LM	954	HOSES (OXYGEN AND ACETYLENE), ATTACH AND REMOVE TO/FROM TORCH	

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU Value	OPERATION/ELEMENT DESCRIPTION	PAGE
81 X	MAF	M167601	435	JACKET (WELDERS), PUT ON AND TAKE OFF	35
81X	MAA	MJPRC XX	VARTABLE	ROD (WELDING) , CHANGE IN ELECTRODE HOLDER	
81X	MAA	MJPRR01	83	REGULATOR, READJUST, TWO TANKS	
81X	MAA	MJPSP01	173	SHIELD (WELDING) . PUT ON AND REMOVE	
81X	MAA	MJPSR01	76	SHIELD(WELDING) + RAISE AND LOWER	36
81X	MAF	MJPTD01	251	TIP(TORCH), DETACH BY HAND	
81X	MAF	#JPTD02	104	TIP(ELECTRODE).DETACH FROM SPOTWELDER	
91X	MAF	MJPTI 01	121	TIP(ELECTRODE), INSTALL ON SPOTWELDER	
81X	MAA	MJPTL01	- 67	TORCH(ACETYLENE), LIGHT WITH FRICTION TYPE IGNITER	
81X	MAF	MJPTROL	119	TENSION.RELEASE ON OXY-ACETYLENE WELDING REGULATOR	
81X	MAF	MJPVT01	321	VALVE(OXY-ACETYLENE CYLINDER), TURN OFF	
81X	TAA	MJPWP01	5206	WELCER(SPOT), PREPARE(ADJUST HEAT)	
81X	MAA	SUPTCOL	669	TIPIOXY-ACETYLENE TORCH), CHANGE WITH WRENCH	
81X	MBA	SJPTGXX	VARIABLE	TIP(ELECTRODE), GRIND	37
BIX	MAF	SJPTL01	349	TORCH(DXY-ACETYLENE), LIGHT AND TURN OFF	
81 X	MUA	SNFSWXX	VARIABLE	SPOT (OR SEAM), WELD	•
81X	MAA	SNF WAXX	VARIABLE	WELD(SPOT) + ACCOMPLISH	•
81X	MUA	SNFWSXX	VARIABLE	SPOT(OR SEAM), WELD ON SCIAKY STATIONARY WELDING MACHINE	
81 X	MA W	MOHTPOI	355	TANK, PUT ON HAND TRUCK	38
91X	MAW	MOHTRO1	126	TANK, REMOVE FROM HAND TRUCK	
81X	TAA	BPTSW01	68	SPOT. WELD	
81x	MAA	MSUC A 01	187	CYCLE DIALS(SPOT WELDING MACHINE), ADJUST	
81X	MUA	SSUMSOL	3995	MACHINE(WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS	
81X	MAA	SSUMS 02	3461	MACHINE(WELDING),SET UP,SCIAKY OR SI-ILAR AND TEST WELD ONE TWO INCH SEAM	39
31X	MAG	MTPTI 01	119	TOOL, INSERT AND REMOVE, AIR HAMMER	
810	MAA	MJPEG 01	221	ELECTRODE(HELI-ARC WELDING),GRIND	
810	MAA	#JPMS01	303	MACHINE(ARC WELDING).SET UP	
310	MAA	PJPPC 01	293	POLARITY (ARC WELDING MACHINE), CHANGE	
810	МАА	. SJPECXX	VARIABLE	ELECTRODE(HELI-ARC WELDING), CHANGE	
810	MAF	SJPRC 01	354	ROD (WELDING) . CHANGE IN ELECTRODE HOLDER	
310	MAW	MNFEP01	53	ELECTRODE, POSITION AND STRIKE ARC	40
810	EUA	MNEWAXX	VARIABLE	WELD, ACCOMPLISH, ARC WELD, PER INCH	
810	МДД	SNEWMXX	VARIABLE	WELD(INERT GAS-ARC), MAKE	
310	OBW	MOHABO1	193	ARC. BREAK AND MOVE TO NEXT WELD	

		5	TMU	OPERATION/ELEMENT DESCRIPTION	PAGE
OCCUP- AT ION	QUALITY	DWMSTDP ELEMENT	VALUE		
811	MAO	MACVOXX	VARIABLE	VALVES(BLOWPIPE OXYGEN AND ACETYLENE), JPEN AND CLOSE	40
811	MAG	MCLHC01	751	HOLES (TORCH TIP), CLEAN	
811	MAO	MCLHC02	62	HOLE(HIGH PRESSURE TIP), CLEAN	41
811	MAO	MJPBL01	120	3LOWPIPE, LIGHT	
311	МДА	MJPTR01	635	TIP(ELECTRODE=GAS), REPLACE	
811	MAO	монв РО1	45	BLOWPIPE POSITION TO METAL	
813	MAA	MSUTS01	129	THYRATON CONTROLS (SPOT WELDING MACHINE), SET	
814	маа	SJPPPO1	280	PRESSURE, PUMP IN BLOW TORCH TANK	
814	MAF	MNFSAXX	VARIABLE	SOLDER, APPLY TO SEAM OR JOINT, SHEET METAL	
816	MAA	MACFEOL	78	FEED(FLAME CUTTING MACHINE), ENGAGE TO START AND TURN OFF	
816	маа	10 A T Q L M	152	TORCH(OXY=ACETYLENE=CUTTING), ADJUST FOR CUTTING REVEL	42
816	мад	MSURP01	145	BAR(RADIUS), PLACE IN AND REMUVE FROM FLA4E CUTTING MACHINE	
816	МДД	MSUMPO1	91	MACHINE(FLAME CUTTING), PLACE ON RING	
316	МДД	MSUR PO1	128	RING(FLAME CUTTING MACHINE).POSITION ON PLATE TO BURN CIRCLES	
816	маа	MSUSA01	65	SPEED DIAL (FLAME CUTTING MACHINE), ADJUST	
816	маа	MSUTPOL	103	TORCH ARMIFLAME CUTTING MACHINE), POSITION FOR BURNING CIRCLES OR STRAIGHT LINES	
816	маа	MSUWR01	155	WHEEL (FLAME CUTTING MACHINE), REMOVE	
82X	мад	MOACTOL	586	COVER(RACEWAY BASE SECTION), INSTALL	43
82X	MAA	MDALC01	64	LUGITERMINALI, CONNECT TO SWITCH	
82X	MAA	MOASIOL	65	SOCKET (LAMP), INSERT IN REFLECTOR FITTING	
82X	MAF	₩ JPFUXX	VARTABLE	FISHTAPE(ELECTRICAL), UNWRAP FROM AND WRAP ON REEL, PER FOOT	
82X	MAF	MJPOPO1	187	DILER, PREPARE FOR FILLING	
82X	MAF	MJPSTOL	161	SWITCH, TURN OFF OR ON, BRANCH LIGHTING CIRCUIT	
82X	MAF	SNFTAOL	443	TAPE, APPLY TO WIRE SPLICE	44
82X	M	SNFTR01	157	TIE(SPOT), REMOVE	
82X	МДД	SNEWCXX	VARTABLE	WIRE BUNDLE, COIL AND TIE	
82X	мдд	SNF W T 01	1838	WIRE BUNDLE, TAPE AND TIE	
82X	MAF	монв го1	914	SOX (JUNCTION), INSTALL ON CONDUIT	
32 X	MΔF	чонеко1	90	PAPER, REMOVE FROM CONDUCTOR AFTER JUTER INSULATION HAS REAR STRIPPED	
. 32X	MAF	40HW401	70	WIRE, ALIGN FOR FORMING IN ELECTRICAL BUX	
92X	МДБ	XX 6#HCM	VARTABLE	WIRE, BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX	45
82X	MAF	MOH#801	1611	WRAPPING(PAPER), REMOVE FROM COIL OF WIRE	

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
82X	MAA	SOHPP01	1393	PLUG/RECEPTACLE, PLACE IN PLASTIC BAG	45
82X	MAF	MTLBC01	253	BANDING, CUT ON REEL OF WIRE, CABLE, OR SIMILAR	
82X	MAF	MTLCR01	175	CONDUIT, REAM END, ONE INCH DIAMETER, HAND REAMER	
82X	MAF	4TLFU01	68	FISHTAPE(ELECTRICAL). USE, FEED INTO CONDUIT	
82X	MAF	MTLFU02	48	FISHTAPE(ELECTRICAL), USE, DISENGAGE TWO TAPES	
82X	MAF	MTLHC 01	85	HOLE.CUT IN CAROBOARD CONTAINER WITH KNIFE	
82X	MAF	MTLHR01	134	HICKEY, REPOSITION ON CONDUIT	
82X	MAF	MTLLC 01	83	LUG(TERMINAL), CRIMP TO WIRE	46
82X	MAF	MTLL PO1	96	LOOP, PLACE ON TERMINAL AND CLOSE WITH PLIERS	
82X	MAF	MTLSBOL	95	SPLICE, BEND PARALLEL TO CONDUCTOR WITH PLIERS	
82X	MAF	MTLSF01	413	SPLICE, FORM WITH PLIERS, PIGTAIL SPLICE	
82X	MAF	MTLTC01	343	THREAD, CUT IN CONDUIT	
82X	MAF	MTLW001	192	WIRE DISCONNECT FROM FISHTAPE AFTER PULLING	
82X	MAF	STLCBXX	VARTABLE	CONDUIT, BEND WITH HICKEY	
82X	MAA	STLPCXX	VARIABLE .	PLUG(COAXIAL), CUT FROM CABLE	47
82X	MAF	STLTB XX	VARIABLE	TUBING (ELECTRICAL METALLIC), BEND WITH MANUAL BENDER	
82X	MAF	MTPA POL	108	ARM(RAM). PULL TO FREE ANVIL, HYDRAULIC CONDUIT BENDER	
82X	MAF	MTPCBXX	VARIABLE	CONDUIT.BEND WITH HYDRAULIC BENDER	
82X	MAA	MWHSM01	120	SPLICE(CENTER), MAKE	
82X	MAA	SWHS I 01	1076	SPLICE(COAXIAL CABLE), INSTALL TO SHIELDED WIRE	48
82X	MAA	SWHSM01	2367	SPLICE(TWO WIRES), MAKE WITH STAKE-ON PLIERS	
82X	MAA	SWHSROL	151	SPLICE.REMOVE	
821	MAF	MB MC PO1	1513	POLE, CLIMB TO LOWER CROSSARM, APPROXIMATELY 30 FEET	
821	MAF	MBMC PO2	686	POLE.CLIMB FROM LOWER TO UPPER CROSSARM	
821	MAF	MBMPC 01	402	POSITION, CHANGE HORIZONTALLY ON POLE	
821	MAF	SBMPC 01	5843	POLE.CLIMB TO AND DESCEND FROM LOWER CROSSARM	49
821	MAF	MCLSC 01	335	SHEATHING(LEAD CABLE), CLEAN BY SCRAPING	
821	MAF	MJPSP01	546	SLEEVES (RUBBER LINEMAN'S), PUT ON AND TAKE OFF	
821	MAF	SNFC I 01	1411	CONNECTORISOLDERLESS), INSTALL, SPLIT BOLT TYPE	
821	MAF	MOHA I O I	2477	ANCHOR (AND ROD ASSEMBLY), INSTALL IN HULE AND EXPAND ANCHOR	
821	MAF	MOHBRO1	283	BELTING.REMOVE FROM LEAD SHEATHED CABLE	
821	MAF	MOHCOO1	202	CUTCUT(FUSED). OPEN OR CLOSE ON POLE WITH DISCONNECT STICK	
821	MAF	MOHER 01	359	EQUIPMENT, RAISE OR LOWER ON POLE WITH HAVOLINE	50
821	MAF	MOHFR01	95	FILLER, REMOVE AND CUT, LEAD SHEATHED CABLE	

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OCCUP- ATION	QUALITY	DWMS TOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
821	MAF	MOHH I 01	257	HOOD(RUBBER INSULATOR), INSTALL ON ENERGIZED LINE	50
821	MAF	MOHHPO1	324	HOSE(RUBBER), PLACE ON ENERGIZED LINE	
821	MAF	MTF4A01	759	ANCHOR, ASSEMBLE TO ROD	
821	MAF	MTLPDO1	157	PIKE.DRIVE INTO POLE.APPROXIMATELY 20 FEET ABOVE GROUND	
921	MAF	MTLPR01	415	POLE-ROTATE WITH CANT HOOK	
821	MAF	STESDOL	609	STEP(POLE) DRIVE INTO POLE WITH HAMMER	51
823	TAA	LOICHMS	7306	JACK/PLUG(INTERPHONE), INSTALL	
823	мад	SWHJR01	2376	JACK/PLUG(INTERPHONE), REMOVE	
824	МДД	MOALIOL	103	LAMP(FLUORESCENT), INSTALL IN LAMP HOLDER	
824	MAA	MOAPIO1	72	PANEL (ELECTRICAL METER), INSTALL	
824	MAA	MOAPRO1	42	PANEL(ELECTRICAL METER), REMOVE	
924	MAA	SDAL I O 1	524	LEADS(LAMPSOCKET), INSERT THROUGH GROMMET	52
824	MAF	MOHC I O 1	. 132	CABLE, INSERT END IN BOX CONNECTOR	
824	MAA	MWHWE01	50	WIRE, INSERT THROUGH CLIP IN RACEWAY	
825	MAA	SCPC I 01	1731	CLAMP.INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD	
825	MAA	SCPCR01	1173	CLAMP(ECP) REMOVE FROM WIRE BUNDLE	
825	MAA	SCPCR02	1026	CLAMP, REMOVE FROM BULKHEAD	53
825	MA A	SCPWC 01	1274	WIRE BUNDLE, CLAMP TO BULKHEAD	•
825	- MAA	SWHWR01	1596	WIRE/WIRE BUNDLE. ROUTE IN AIRCRAFT	
825	MAA	SWHWT01	1296	WIRE BUNDLE, TIE TO TOMBSTONE	
829	MAF	MOHEIXX	VARIABLE	FUSE(ELECTRICAL), INSTALL	
829	MAF '	MOHSRO1	144	STARTER(FLUGRESCENT).REPLACE IN FIXTURE	
829	MAF'	STLBRXX	VARIABLE	BULB REPLACE WITH BULB CHANGER	54
844	MAF	MACMD01	593	MIXTURE(DRY AGGREGATE).DUMP INTO MIXER FROM HOPPER	
844	MAF	SOHC A 01	462	CHUTE(EXTENSION) ATTACH TO TRANSIT MIXER	
844	MAF	MTLCC01	3699	CONCRETE, CHIP WITH CHISEL AND HAMMER, SEVEN CUBIC INCHES	
844	MAF	MTPHE01	273	HANDLES(GUIDE) .EXTEND OR RETRACT, CONCRETE SAW	
844	MAF	MTPHP01	272	HAMPER(PNEUMATIC), POSITION FOR DRILLING AND REMOVE AFTER DRILLING	
844	MAF	MTPSAOL	177	SPEED.ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW	
944	MAF	MTPUE 01	342	UNIT(SELF-PROPELLING), ENGAGE AND DISENGAGE, CONCRETE SAW	
845	MAA	MPAPSXX	VARIABLE	PAINT.SPRAY ON AIRCRAFT SURFACE.PER TEN SQUARE FEET	
845	MUA	SPAA I O1	26690	ARROW(RESCUE), INSTALL ON AIRCRAFT	

OCCUP- ATION	QUAL ITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
845	MUA	SPALIOL	80610	INSIGNIA(NATIONAL-STAR), INSTALL ON AIRCRAFT	55
853	MAF	SOH WR 01	2 00	WRAPPING(PAPER).REMOVE FROM LOO-POUND BUNDLE OF ASPHALT	
853	MAF	MTLMS01	776	MIX (HOT BITUMINOUS), SPREAD WITH RAKE, PER SQUARE YARD	
. 853	MAF	STL4501	350	ASPHALT.BREAK INTO PIECES WITH AXE.100-POUND BUNDLE	56
86X	MAF	MACSLO1	992	SCAFFOLD(PORTABLE).LOCK AND UNLUCK WHEELS	•
36X	MAF	M(TFMO1	922	FRAME(DOOR), MEASURE AND CENTER IN OPENING	
86X	MAF	SITECOL	1041	FRAME(DODR), CHECK FOR VERTICAL ALIGNMENT WITH LEVEL	
86X	MAF	MJPB 001	112	BLOCK(SANDING), OBTAIN AND ATTACH SANDPAPER.	•
86X	MAF	SJP9C01	380	BELT, CHANGE ON HAND HELD SANDING MACHINE	
86X	MAF	MMHOP 01	886	OBJECT, RAISE AND LOWER WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT	57
86X	MAF	MNF 4 4 01	. 367	ADMERT CETARRES HITW REDJE OF YLPRA, SVIZEHDA TOOR SAAUDE REG	
86 X	MAF	4NF8 [01	876	BRACE(BOTTOM), INSTALL IN METAL DOOR FRAME	
86 X	MAF	SNEBIOL	380	BRACE(CENTER). INSTALL IN METAL DOOR FRAME	
86X	MAF	SNF WI 01	251	WEDGE, INSTALL TO HOLD DOOR FRAME IN PLACE	
86 X	MAF	SNF # 102	458	MEDGE, INSTALL TO RAISE AND LEVEL DUCK FRAME	
86X	MAF	MOHC 001	256	CUTTER (GASKET), OBTAIN FROM CASE AND PUT AWAY	
86 X	MAF	MOHE UO1	352	FELT (ROOFING), UNROLL 15 FEET	
86X	MAF ·	MOHGRO1	245	GASKET, REMOVE FROM CUTTING BOARD AND ASIDE SCRAP	53
86 X	MAF	SOHAFOI	296	FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOR FRAME	
86 X	MAF	SOHFAOL	1613	FRAME(METAL DCOR).ASSEMBLE	
96X	MAF	MTLBAOL	411	BLADE(GASKET CUTTER), ADJUST WITH CLAMPING SCREWS	
86X	MAF	MTLBU01	538	BOB (PLUMB) +USE	
86X	MAF	MTLCA01	176	CUTTER (GASKET) . ADJUST TO SIZE FOR RING GASKET	
86X	MAF	MTLCP01	173	CUTTER (GASKET) . POSITION TO BOARD AND REMOVE	
86X	MAF	MTLGL01	125	GUN(CAULKING).LOAD WITH CARTRIDGE	
86 X	MAF	MTPTC01	578	TOOL, CONNECT TO AND DISCONNECT FROM EXTENSION CORD LYING ON FLOOR	59
860	MAW	MJPBHOL	75	BOARD. HOLD FOR SAWING	
860	MAF	MUPBIO1	. 234	BIT, INSTALL IN AND REMOVE FROM BRACE	
860	MAW	MJP8102	173	SIT, INSTALL IN AND REMOVE FROM HAND ORILL	•
860	MAW	MJP81 03	· 102	BIT, INSTALL IN AND REMOVE FROM SPIRAL URILL	
860	MAF	MOHCA 01	111	CARTRIDGE, ASSEMBLE TO STUD	

OCCUP- AT ION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
860	MA w	MOHNG 01	65	NAILS. GET FROM BOX	59
860	MAF	MOHPL01	704	PARTITION(ASSEMBLED), LIFT FROM FLOOR AND POSITION TO MARKS	
860	MAF	MOHPMO1	277	PLATE(FOUNDATION), MAKE LEVEL WITH SHIMS	60
860	MAF	MOHPPO1	441	PLATE(FOUNDATION), POSITION TO BOLTS SET IN CONCRETE	
860	MAW	MTLBP01	69	BIT(AND BRACE), POSITION FOR DRILLING AND REMOVE	
860	MAF	MTLB SXX	VARIABLE	BOARD.SAW IN MITER BOX	
	MAW	MTLDP01	. 37	ORILL(SPIRAL). POSITION TO MARK AND REMOVE	
860 860	MAW	MTLHD01	23	HOLE, DRILL WITH SPIRAL DRILL, PER STROKE	
860	MAF	MTLLS01	281	LINE-STRIKE WITH CHALK LINE	
860	MAW	MTLNP01	. 59	NAIL. POSITION AND START TO DRIVE WITH HAMMER	
860	MAF	MTLNSXX	VARIABLE	NAIL, START IN BOARD	61
860	MAW	MTLPAOL	192	PLANE (HAND) - ADJUST	
860	MAW	STLDHXX	. VARTABLE	HOLE, DRILL WITH SPIRAL DRILL(ONE INCH HOLE)	
860	MA W	STLNRXX	VARIABLE	NAIL, REMOVE WITH HAMMER	
860	MAF	MTPGOOL	99	GUN (POWDER ACTUATED), OPEN AND CLOSE	•
860.	MAF	MTPGPOL	221	GUN(PONDER ACTUATED), POSITION AND FIRE ONE BOLT OR STUD	•
860	MAF	STPSIOL	494	STUD. INSTALL WITH POWDER ACTUATED GUN	
861	MAF	MNFMA01	82	MORTAR, APPLY TO ONE END AND ONE SIDE OF BRICK	62
861	MAF	MNFMA 02	244	MORTAR, APPLY ON THREE BRICK LENGTHS: FURROW AND CUT JOINT	
861	MAF	MNFMA03	. 28	MORTAR, APPLY TO ONE END OF BRICK	
861	MAF	MOHBDXX	VARTABLE	BRICK(FIRE), DIP IN ADHESIVE	
861	MAF	монвоо1	169	BRICK.OBTAIN AND WET.PREPARATORY TO INSTALLATION	
861	MAF	MOHBP01	280	BRICK(FIRE), PLACE AND TAP INTO POSITION	٠
861	MAF	монв \$01	591	BED(MORTAR SETTING), SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET	
861	MAF	МОНВ ТО1	475	BRICK(JAMB FIRE), TAP INTO POSITION ON OUTSIDE CORNER	
861	MAF	MOHB T 02	673	BRICK, TAP INTO PUSITION FOR TIE-IN	63
861	MAF	SOHBOO1	429	BAG (CEMENT), OBTAIN AND OPEN	
861	MAF	SOHBR 01	574	BACKING(PAPER), REMOVE FROM TILE FIELD, 13"X26"	
861	мағ	SOHGP01	333	GROUT, POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT	
861	MAF	SOHTP01	417	TILE. POSITION AND LEVEL TO ADJOINING TILE	
861	MAF	MTL8801	331	BRICK. BREAK WITH TROWEL TO FIT	
861	MAF	MTLBC01	660	BAG, CUT, CEMENT OR SIMILAR USING TRUWEL	

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OCCUP- ATION	QUALITY	OWMS TOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
861	MAF	MTL8 SO1	357	BED(MORTAR SETTING), SCREED, PER TWO SQUARE FEET	63
861	MAF	MTLCB01	190	BRICK, CHIP OUT WITH CHISEL AND HAMMER, PER CUBIC INCH	64
86 I''''	MAF	MTLJC01	246	JOINT (MORTAR), CUT OFF, BOTTOM AND UNE END, THREE BRICKS, WITH TROWEL	
861	MAF	HTLJC 02	117	JOINT(MORTAR), CUT OFF, BOTTOM AND ONE END, ONE BRICK, WITH TROWEL	
861	MAF	MTLJP01	208	JOINT(MORTAR), POINT UP HORIZONTAL AND VERTICAL 8"X16" BLOCK	
86 L	MAF	MTLJSOL	195	JOINT(MORTAR), STRIKE, VERTICAL AND HORIZONTAL, ONE BLOCK, WITH TROWEL	
861	MAF	MTLTFOL	132	TROWEL.FILL WITH MORTAR	
862	MAF	SEMTP01	252	TCOL(REAMING), POSITION AND RETURN, TOLEDO 999 PIPE MACHINE OR SIMILAR	
862	MAF	MNFSIXX	VARIABLE	STAPLE.INSTALL IN PIPE COVER	
862	MAF	MOHCGXX	VAR I ABLE	COVER(PIPE).GET AND POSITION ON PIPE.LENGTH OF COVER-THREE FEET	65
862	MAF	MOHC 001	288	CLOTH, OBTAIN FROM ROLL	
862	MAF	MOHC SO1	134	CLOTH, SMOOTH AFTER WRAPPING AROUND PIPE FITTING	
862	MAF	MOHF WOI	310	FITTING WRAP WITH WIRE (CHICKEN WIRE OR SIMILAR)	
862	MA F	MOHGT 01	97	GASKET, INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER	•
862	MAF	TOALHOM	332	JOINT(FLANGE), ALIGN	
862	MAF	MOHJA 02	171	JOINT (FLANGE) , ALIGN WITH PIN	
862	MAF	MOHLOOL	823	LAMPWICK, OBTAIN AND WRAP ON THREADS OF PIPE	
862	MAF	MOHP PO1	264	PIPE, POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH	66
862	MAF	MOHPPOZ	442	PIPE, POSITION IN THREADING MACHINE AND REMOVE, 4-20 FEET IN LENGTH	
862	MAF	MOHPP03	359	PIPE, POSITION IN THREADING MACHINE CHUCK AND REMOVE, TO FOUR FOOT LENGTH	
962	MAF	MOHSA01	1757	SNAKE, ATTACH TO AND REMOVE FROM PIPE, PREPATORY TO LEAD POUR	
862	MAF	MOHSP01	331	STAND(PIPE).POSITION UNDER PIPE	
862	MAF	MOHTBOI	167	TUBING. BEND TO MATCH FITTING	
862	MAF	MOHTUO1	430	TUBING. UNROLL FROM COIL	67
862	MAF	MSUDPO1	253	DIE (THREADING), PUSITION TO PIPE AND RETRACT, TCLEDO MODEL 999 OR SIMILAR PIPE MACHINE	-
862	MAF	MSUSA 01	235	SPEED.ADJUST ON HEAVY DUTY PIPE MACHINE, THREE LEVERS	
862	MAF	MSUSC 01	133	SIZE(DIE). CHANGE ON HEAVY DUTY PIPE MACHINE	
862	MAF	MSUWT01	418	WHEEL, TIGHTEN OR LOOSEN TO ADJUST REAR GUIDE CLAMPS, HEAVY DUTY PIPE MACHINE	

OCCUP-	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
862	MAF	SSUDIOL	500	DIE(THREADING),INSTALL AND REMOVE,PIPE THREADING MACHINE	67
862	MAF	MTFPP01	194	PIPE, POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON HOIST)	
862	MAF	MTFTA01	270	TUBING.ASSEMBLE TO THREADED FITTINGS(BOTH ENDS OF TUBING)	
862	MAF	MTLCCXX	VARIABLE	COVER(PIPE), CUT WITH HACK SAW	68
862	MAF	MŤLDB01	617	DIE.BACK OFF THREADING TOOL.HAND-HELD PIPE DIE	
862	MAA	MTLDP01	116	DIE, POSITION TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE	
862	MAF	MTLJTXX	VARIABLE	JOINT (FLANGE), TIGHTEN OR LOOSEN, PRELIMINARY	
862	MAF	MTLPC01	3830	PIPE, CUT. WITH PIPE CUTTER	
862	MAF	MTLTBXX	VARIABLE	TUBING. BEND WITH TUBING BENDER	
862	MAF	MTL TC XX	VARIABLE	TUBING.CUT OFF WITH HAND CUTTER	
862	MAF	STLTF01	1284	TUBING. FLARE END	69
862	MAF	STLTROI	450	TUBING. REAM END WITH HAND REAMER	
862	MUF	MVSV001	266	VISE(PIPE). OPEN OR CLOSE AND TIGHTEN	
863	MAF	MOHSP01	208	SHINGLE(ASBESTOS), POSITION TO WALL	
863	MAF	MOHSRO1	. 485	SHINGLEIBROKEN).REMOVE FROM WALL, ASBESTOS SHINGLE	
863	MAF	, HTLSCOL	146	SHINGLE, CUT WITH SHINGLE CUTTER, ASBESTOS SHINGLE	•
863	MAF	MTLSPXX	VARIABLE	SHINGLE.PUNCH HOLE WITH MANUAL PUNCH, ASBESTOS SHINGLE	
864	HAF	SJPSCOL	2233	SANDPAPER, CHANGE ON DRUM SANDER	70
864	MAF	MOHFMO1	162	FELT. MOVE ASIDE FOR ADHESIVE APPLICATION	
864	MAF	MOHFM02	263	FELT.MOVE INTO POSITION AFTER ADHESIVE APPLICATION	
864	MAF	MTPSL 01	49	SANDER (DRUM) . LOWER TO OR RAISE FROM FLOOR	
865	MAF	MNEPIOL	265	POINT(GLAZIER'S), INSTALL, PER POINT	
865	MAF	MOHG PO1	98	GLASS.PLACE IN AND REMOVE FROM WINDOW FOR TRIAL INSTALLATION	
865	MAF	MOHG P 02	138	GLASS. PLACE IN WINDOW FOR FINAL INSTALLATION	•
866	MAF	HNFFN01	68	FELT(ROOFING).NAIL WITH ROOFING NAILS.PER NAIL	71
866	MAF	MOHAA01	. 439	ASPHALT, APPLY FLOOD COAT FROM POUR CAN	
866	MAF	MOHAE 01	271	ASPHALT, EMPTY FROM BUCKET TO "LO-BOY" CART	
866	MAF	MOHAMXX	VARIABLE	ASPHALT, MOP ON SURFACE FROM WHEELED BUCKET	
866	MAF	MOH8F01	212	BUCKET, FILL WITH HOT ASPHALT FROM KETTLE	
866	MAF	MOHBRO1	198	BUCKET (EMPTY). REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL	
866	MAF	MTLFCXX	VARIABLE	FELT (ROOFING), CUT WITH KNIFE, PER LINEAR FOOT	

OCCUP- AT ION	YTIJAUG	DWMSTDP ELEMENT	TMU VA LUE	OPERATION/ELEMENT DESCRIPTION	PAGE
866	MAF	MTLG SOL	261	GRAVEL, SPREAD WITH SHOVEL, PER SHOVELFUL	72

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
ADHESIVE, APPLY TO FLOOR WITH SERRATED TROWEL, PER SQUARE FOOT	367	86X	MNFAA01	57
ALUMINUM.CUT WITH COMPOUND LEVER SNIPS.PER Linear inch	VARIABLE	80 X	STLACXX	·o
ALUMINUM.CUT WITH DISC. ROUTER OR SIMILAR MOUNTED IN PNEUMATIC GUN.PROCESS TIME ONLY	1591	807	BPTAC01	25
ALUMINUM.CUT WITH SAW MOUNTED IN PNEUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING	1985	807	8PTACO2	25
ALUMINUM, SAW WITH JEWELER'S OR SKIN SAW, PER Straight linear inch	VARIABLE	8u 7	STLASXX	32
AMPERAGE, ADJUST ON AC OR OC WELDING MACHINE	55	81 X	MACAAOL	33
ANCHORIAND ROD ASSEMBLY). INSTALL IN HOLE AND EXPAND ANCHOR	2477	821	HOIAHLM	49
ANCHOR, ASSEMBLE TO ROD	759	821	MTFAA01	50
ARC. BREAK AND MOVE TO NEXT WELD	193	810	мэнаво1	40
ARFA(DAMAGED).CUT AWAY.ALUMINUM ALLOY TO .364 INCH THICKNESS.CIRCULAR AREA	VARIABLE	807	STLACXX	31
AREA(DAMAGED), CUT AWAY, ALUMINUM ALLOY TO .064 INCH THICKNESS, RECTANGULAR AREA	VARIABLE	807	STLCAXX	32
ARM(RAM), PULL TO FREE ANVIL, HYDRAULIC CONDUIT BENDER	109	82X	MTPAPOL	. 47
ARROW (RESCUE) . INSTALL ON AIRCRAFT	26690	84.5	SP44101	. 55
ASPHALT, APPLY FLOOD COAT FROM POUR CAN	439	866	104AHCM	71
ASPHALT, BREAK INTO PIECES WITH AXE, 100-POUND BUNDLE	350	853	STLABOL	56
ASPHALT, EMPTY FROM BUCKET TO "LO-BOY" CART	271	866	103AHCM	71
ASPHALT, MOP ON SURFACE FROM WHEELED BUCKET	VARIABLE	866	AXFAHCM	71
BACKING(PAPER), REMOVE FROM TILE FIELD, 13"X26"	574	861	SJHBROL	53
BAG(CEMENT), OBTAIN AND OPEN	429	861	\$0H8001	63
BAG.CUT.CEMENT OR SIMILAR USING TROWEL	660	861	MTLBC01	63
BANDING, CUT ON REEL OF WIRE, CABLE, OR SIMILAR	253	82 X	MTLBCJI	45
BAR(RADIUS), PLACE IN AND REMOVE FROM FLAME CUTTING MACHINE	145	916	MSUBP01	42
BEDIMORTAR SETTING), SCREED, PER TWO SQUARE FEET	357	· 86 L	MTLSSOI	63
BED(MORTAR SETTING), SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET	591	861	102 8HEM	62
BELT. CHANGE ON HAND HELD SANDING MACHINE	380	86 X	SJPBCOL	56
BELTING. REMOVE FROM LEAD SHEATHED CABLE	283	821	MUHBRO1	49
BIT(AND BRACE), POSITION FOR DRILLING AND REMOVE	69	860	MTLBP01	60
BIT. INSTALL IN AND REMOVE FROM BRACE	234	860	MJPB101	59
BIT, INSTALL IN AND REMOVE FROM HAND DRILL	173	860	MJPBI02	59
BIT, INSTALL IN AND REMOVE FROM SPIRAL DRILL	102	860	MJPB103	. 59

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
BLADE(GASKET CUTTER).ADJUST WITH CLAMPING SCREWS	411	86X	MTLBAGI	58
BLOCK (SANDING) - OBTAIN AND ATTACH SANDPAPER	112	86X	MJP8001	56
BLOWPIPE, LIGHT	120	. 911	MJPBLOL	41
BLOWPIPE, POSITION TO METAL	45	811	MOHBPO1	41
BOARD, HOLD FOR SAWING	75	860	Мјрвно1	59
BOARD. SAW IN MITER BOX	VARIABLE	860	MTLBSXX	60
BOB(PLUMB).USE	538	86 X	MTLBU01	58
BOLT(HI-LOK), INSTALL, POWER TOOLS, FIRST	473	807	STFB107	27
BOLT(HI-LOK), INSTALL, POWER TCOLS, ADDITIONAL	390	807	STF8108	27
BOLT(HI-LOK), INSTALL WITH MANUAL TOOLS	VARIABLE	807	STEBIXX	26
BOLT(HI-LOK), REMOVE, MANUAL TOOLS	VARTABLE	807	STFBRXX	27
BOLT(HI-TORQUE).INSTALL WITH PNEUMATIC TOOL, PER BOLT	VARIABLE	807	STFIBXX	29
BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION	1069	807	STF1B03	29
BOLT(HI-TORQUE). INSTALL WITH HAND TOOLS IN	1535	807	STF 1804	29
BOLT (HUCK LOCK), SET WITH PULL TYPE GUN	50	807	BPTBS01	25
BOXIJUNCTION). INSTALL ON CONDUIT	. 914	82 X	1018HCM	. 44
BRACE(BOTTOM), INSTALL IN METAL DOOR FRAME	876	86X	MNFBIOL	57
BRACE(CENTER). INSTALL IN METAL DOOR FRAME	380	86X	SNFBIOL	57
BRICK(FIRE).DIP IN ADHESIVE	VARIABLE	861	MUHBDXX	62
BRICK(FIRE), PLACE AND TAP INTO POSITION	280	861	MUH8P01	62
BRICK(JAMB FIRE).TAP INTO POSITION ON OUTSIDE CORNER	475	861	MOHBTO1	62
BRICK.BREAK WITH TROWEL TO FIT	331	861	MTLBB01	63
BRICK, CHIP OUT WITH CHISEL AND HAMMER, PER CUBIC INCH	190	861	MTLCB01	64
BRICK, OBTAIN AND WET, PREPARATORY TO INSTALLATION	169	861	M0H8001	62
BRICK, TAP INTO POSITION FOR TIE-IN	673	861	M3H8T02	63
BUCKET(EMPTY).REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL	198	866	MOH8R01	71
BUCKET, FILL WITH HOT ASPHALT FROM KETTLE	212	866	MOH8F01	71
BULB, REPLACE WITH BULB CHANGER	VAR [ABL E	829	STLBRXX	54
CABLE(FLECTRODE HOLDER), CONNECT/DISCONNECT TO/FROM ARC WELDER	546	81X	MJPCC01	34
CABLE, INSERT END IN BOX CONNECTOR	132	824	WOHC TO 1	52
CARTRIDGE(SEALANT), INSTALL IN AND REMOVE FROM GUN	1330	807	SJPCIOL	15
CARTRIDGE, ASSEMBLE TO STUD	111	860	HOHCA01	59

OPERATION/ELEMENT DESCRIPTION	TMU Valué	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
CHISEL. CHANGE IN PNEUMATIC HAND CHIPPER	243	8XX	STPCC01	2
CHUTE(EXTENSION),ATTACH TO TRANSIT MIXER	462	844	10AOHC2	54
CLAMP(BAR), INSTALL AND REMOVE	VARIABLE	8XX	MCPCIXX	1
CLAMP(ECP), REMOVE FROM WIRE BUNDLE	1173	825	SCPCR01	52
CLAMP, INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD	1781	825	SCPCIOL	52
CLAMP, REMOVE FROM BULKHEAD	1026	825	SCPCROZ.	53
CLOTH, OBTAIN FROM ROLL	288	862	MOHCOO1	55
CLOTH, SMOOTH AFTER WRAPPING AROUND PIPE FITTING	134	862	MOHC SO1	65
COLLAR(HI-LOK BOLT), INSTALL, MANUAL TOOLS	VARIABLE	807	STFCIXX	27
COLLAR(HI-LOK BOLT), REMOVE, MANUAL TOOLS	VARIABLE	807	STECRXX	28
COLLAR(RIVET), SPLIT WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY	153	807	BPTC SO1	25
COLLAR, CUT FROM DRAW TYPE SHEAR PIN	7 49 1 ABL E	807	SNECCXX	lo
CONCRETE, CHIP WITH CHISEL AND HAMMER, SEVEN CUBIC INCHES	3699	844	MTLCCOL	54
CONDUIT, BEND WITH HICKEY	VARIABLE	82X	STLCBXX	, 46
CONDUIT.BEND WITH HYDRAULIC BENDER	VARTABLE	. 82X	MTPCBXX	47
CONDUIT, REAM END, ONE INCH DIAMETER, HAND REAMER	175	82X	MTLCROI	45
CONNECTOR (SOLDERLESS). INSTALL, SPLIT BOLT TYPE	1411	821	SVFCIOL	49
CONTROLS(HEAT), ADJUST ON WELDING MACHINE	56	81X	MACCAOL	-33
COVER(PIPE), CUT WITH HACK SAW	VARIABLE,	862	MTLCCXX	68
COVER(PIPE).GET AND POSITION ON PIPE, LENGTH OF COVER-THREE FEET	VARIABLE	862	· мэнс GXX	65
COVER(RACEWAY HASE SECTION), INSTALL	586	82X	MOACIOL	43
CUTOUT(FUSED), OPEN OR CLOSE ON POLE WITH OISCONNECT STICK	202	821	1000HCM	49
CUTTER (GASKET), ADJUST TO SIZE FOR RING GASKET	176	86 X	MTLC401	58
CUTTER(GASKET), OBTAIN FROM CASE AND PUT AWAY	256	86 X	WOHCOOL	. 57
CUTTER (GASKET), POSITION TO BOARD AND REMOVE	173	86X	MTLCP01	58
CYCLE DIALS(SPOT WELDING MACHINE), ADJUST	187	81 X	MSUCAOL	38
DENT, REMOVE FROM ALUMINUM TO .064 INCH THICKNESS, PER SQUARE INCH	VARIABLE	, 807	STLORXX	32
DIEITHREADING).INSTALL AND REMOVE, PIPE THREADING MACHINE	500	862	1010022	67
DIEITHPEADING), POSITION TO PIPE AND RETRACT, TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE	253	862	MSUDPOL	67
DIE, BACK OFF THREADING TOOL, HAND-HELD PIPE DIE	617	862	MTLDB01	63
DIF, CHANGE IN STOCK, HAND THREADING DIE	211	8XX	MJPDC01	1
DIE, INSTALL IN AND REMOVE FROM DIE STOCK, TWO SETSCREWS SECURING	802	8XX	SUPDIOL	1

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	ÜMMSTDP ELEMENT	PAGE
DIE, POSITION TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE	116	862	MTLDPOI	68
.DIMPLE(COLO).FORM WITH HAND DIMPLER	VARIABLE	800	STLDFXX	12
DIMPLE MACHINE.SET UP(COLD)	3359	° 800	\$\$00501	11
DIVIDERS.USE TO SCRIBE 90-DEGREE ARC	152	809	MTLDUOL	33
DOUBLER(OR FILLER), FABRICATE, FLAT CIRCULAR	VARIABLE	807	SFADFXX	13
DRILL(SPIRAL), POSITION TO MARK AND REMOVE	37	860	MTLOPOL	60
ELECTRODE (HELI-ARC HELDING) . GRIND	221	810	MJPEG01	39
ELECTRODE (HELI-ARC WELDING), CHANGE	VARIABLE	810	SJPECXX	. 39
ELECTRODE(TUNGSTEN), CHANGE IN TORCH	350	81X	MJPEC01	35
ELECTRODE, POSITION AND STRIKE ARC	53	810	MNFEP01	40
EQUIPMENT.RAISE OR LOWER ON POLE WITH HANDLINE	359	821	MUHERO1	50
FASTENER(ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, FIRST PIECE	497	807	SNFFIOL	16
FASTENER (ANCHORED). INSTALL MISSING FLOATING OR CHANNEL NUT ONLY.ALL TYPES.ADDITIONAL PIECE	454	807	SVFF102	16 .
FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1—MAN OPERATION, FIRST PIECE	3610	807	SNFF103	17
FASTENER(ANCHORED).INSTALL CAMLOC OR AIRLOC RECEPTACLE.OR DZUS SPRING.1-MAN OPERATION. ADDITIONAL PIECE	1840	807	SNFF104	17
FASTENER(ANCHORED).INSTALL CAMEDO OR AIRLOC RECEPTACLE.OR DZUS SPRING,2-MAN OPERATION, FIRST PIECE	5770	807	SNFF 105	17
FASTENER(ANCHORED), INSTALL CAMLOC OR ATRLOC RECEPTACLE OR DZUS SPRING, 2-MAN OPERATION, ADDITIONAL	3250	807	\$NFF [06	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE—NUT LENGTH	18850	807	SNFF107	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, EACH ADDITIONAL THREE—NUT LENGTH	4530	807	SNFF108	19
FASTENER(ANCHORED).INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS. FIRST OR SINGLE THREE—NUT LENGTH	14970	807	SNFFI09	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE—NUT LENGTH	2880	807	SNFFILO	18
FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE	5390	807	SNFFI11	19
FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL	3180	807	SNFF112	19
FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, FIRST PIECE	883	807	SIFFIOL	28
FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ADDITIONAL PIECE	730	807	STFF102	28

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
FASTEMER(ANCHORED), INSTALL RIV-NUT, FIRST PIECE	610	807	STFF103	23
FASTENER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL	550	807	STFF104	29
FASTENER (ANCHORED), PREPARE HOLE AND INSTALL	VARIABLE	807	SNEEPXX	20
FASTENER(ANCHORED), REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY	VARIABLE	807	SNEREXX	. 24
FASTENER (ANCHORED), REMOVE DILL NUT	VARIABLE	807	STEERXX	. 29
FASTENER (ANCHORED) , REPLACE	VARIABLE	807	SNEERXX	21
FASTENER (BLIND), REMOVE, DEUTSCH DRIVE PIN RIVET	VAR1ABLE	800	SNEFRXX	3
FASTENER (CAMLOC), LOOSEN	VARIABLE	80X	MNEELXX	3
FASTENER (CAMLOC), TIGHTEN	VARIABLE	80X	MNEETXX	3
FASTENER (HIGH STRENGTH), INSTALL	VARIABLE	80X	SIFFIXX	4
FASTEMER(TURNLOCK), SEAT AND TIGHTEN	VARIABLE	80X	SVFFSXX	5
FASTEMER (TURNLOCK) . UNLOCK	VARIABLE	80X	SVFFUXX	5
FASTENERS (HIGH STRENGTH) . REPLACE	VARIABLE	80X	SVFFRXX	5
FISTNEP (ANCHORED), INSTALL RIV-NUT, MANUAL MOTIONS ONLY	VARIABLE	807	. MTFFIXX	26
FFFD(FLAME CUTTING MACHINE), ENGAGE TO START AND TURN OFF	78	816	MACFEO1	,41
FFLT(RCOFING), CUT WITH KNIFE, PER LINEAR FOOT	VARIABLE	866	MTLFCXX	. 71
FELT(ROOFING), NAIL WITH ROOFING NAILS, PER NAIL	68	866	MNFFN01	71
FELT (ROOF ING). UNR DLL 15 FEET	352	86 X	MOHFU01	57
FELT, MOVE ASIDE FOR ADHESIVE APPLICATION	162	864	10M3HCM	70
FELT, MOVE INTO POSITION AFTER ADHESIVE APPLICATION	263	864	SOMPHEM 2	70
FILLER (OR DOUBLER), FABRICATE, FLAT RECTANGULAR, TO .064 INCH THICK	VARIABLE	807	SFAFFXX	14
FILLER, REMOVE AND CUT, LEAD SHEATHED CABLE	95	821	. MUHEROI	50
FINDER (HOLF) . USE . LEAF TYPE	VARIABLE	80 X	MTLFUXX	6
FISHTAPE (ELECTRICAL), UNWRAP FROM AND WRAP ON REEL, PER FOOT	VARIABLE	82X	MJPFUXX	43
FISHTAPE(ELECTRICAL), USE, FEED INTO CONDUIT	63	82X	MTL FU01	. 45
FISHTAPE(ELECTRICAL), USE, DISENGAGE TWO TAPES	48	82X	MTLFU02	45
FITTING, WRAP WITH WIRE (CHICKEN WIRE OR SIMILAR)	310	862	10WPHCM	65
FLAME, ADJUST ON HAND TORCH	94	81X	MJPFAOI	35
FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOP FRAME	296	86X	SOHAFOL	58
FRAME(DOOR). CHECK FOR VERTICAL ALIGNMENT WITH LEVEL	1041	Xae	SITECOL	50
FRAME(DOOR). MEASURE AND CENTER IN OPENING	922	86 X	MITEMOL	56
FRAME(METAL DOOR), ASSEMBLE	1613	86 X	SOHF 401	58

OPERATION/FLEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWYSTOP ELEMENT	PA GE
FUSE(ELECTRICAL), INSTALL	VARIABLE	829	XX1 PHLM	53
GAP(DIE),ADJUST(DIMPLING MACHINE-COLD)	1121	800	SSUGADI	12
GAS, TURN ON, LIGHT, AND TURN OFF, GAS BUPNER FOR HEATING SOLDERING IRON OR SIMILAR	130	8xx	MJPGT01	. 1
GASKET, INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER	97	862	MUHGIO1	65
GASKET.REMOVE FROM CUTTING BOARD AND ASIDE SCRAP	245	86X	MOHGRO1	58
GLASS, PLACE IN AND REMOVE FROM WINDOW FOR TRIAL INSTALLATION	98	865	MUHGP01	70
GLASS, PLACE IN WINDOW FOR FINAL INSTALLATION	138	865	MUHGP02	73
GOGGLES (BURNING) . PUT ON AND REMOVE	110	81X	MJPGP01	35
GRAVEL, SPREAD WITH SHOVEL, PER SHOVELFUL	261	866	MTLGSOL	72
GROMMET(AND STUD), INSTALL, DZLS FASTENER, USING PNEUMATIC FLOOR DIMPLER	VARIAGLE	807	SVFIGXX	22
GROMMET (AND STUD), REMOVE, DZLS FASTENER, MANUAL MOTIONS ONLY	VARIABLE	807	MNFGRXX	15
GROMMET (CAMEDO), INSTALL WITH SNAP RING	VARIABLE	807	SNEGIXX	. 21
GROMMETICAMLOC), REMOVE, SECURED WITH SNAP RING	VARIABLE	807	SNEGRXX	21
GROUT, POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT	333	861	SJHGP01	63
GUNICAULKING). LOAD WITH CARTRIDGE	125	86 X	MTLGL01	58
GUN (POWDER ACTUATED), OPEN AND CLOSE	99	860	MTPG001	61
GUN(POWDER ACTUATED), POSITION AND FIRE ONE BOLT OR STUD	221	860	MTPGPOL	61
GUN(RIVET), SET UP, CHANGE RIVET SET	173	800	SJPGS02	7
GUN(PIVET)+SET UP+INITIAL	424	800	SJPGSOL	7
HAMMER(PNEUMATIC), POSITION FOR DRILLING AND REMOVE AFTER DRILLING	. 272	844	MTPHP01	54
HANDLES(GUIDE). EXTEND OR RETRACT. CONCRETE SAW	273	844	MTPHEOL	54
HICKEY, REPOSIITON ON CONDUIT	134	82X	MTLHR01	45
HOLE (HIGH PRESSURE TIP) . CLEAN	62	811	MCLHC02	41
HOLE-CUT IN ALUMINUM TO .064 INCH THICKNESS. RECTANGULAR ACCESS HOLE	VARIABLE	807	SFACHXX	13
HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE	VARIABLE	807	SFAHCXX	14
HOLE, CUT IN CARDBOARD CONTAINER WITH KNIFE	85	82X	MTLHCOL	45
HOLE, DIMPLE(COLD AND HOT)	TABLE	800	TEMHOXX	7
HOLE, DRILL WITH SPIRAL DRILL, PER STROKE	23	860	MTLHDOL	60
HOLE, DRILL WITH SPIRAL DRILL(ONE INCH HOLE)	VARIABLE	860	STLDHXX	61
HOLE, GAUGE TO DETERMINE RIVET LENGTH	178	80 X	MGMHG01	2
HOLE, PUNCH WITH PORTABLE PUNCH	VARTABLE	8XX	MTLHPXX	2

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	OWMSTDP ELEMENT	PAGE
HOLE.REAM WITH HAND REAMER	VARIABLE	· 80x	MTLHRXX	6
HOLES(TORCH TIP), CLEAN	751	811	MCLHC01	40
HOOD(RUBBER INSULATOR), INSTALL ON ENERGIZED LINE	257	821	MOHHIO1	50
HOSE(RUBBER), PLACE ON ENERGIZED LINE	324	821	моннро1	50
HOSES(OXYGEN AND ACETYLENE) .ATTACH AND REMOVE TO/FROM TORCH	954	81 X	MJPHA01	35
INSIGNIA(NATIONAL-STAR), INSTALL ON AIRCRAFT	80610	845	SPAIIOL	55
JACK/PLUG(INTERPHONE),INSTALL	7306	823	101LHW2	51.
JACK/PLUG(INTERPHONE),REMOVE	2376	823	SWHJROL	51
JACKET (WELDERS).PUT ON AND TAKE OFF	435	81X	109L9LM	35
JO-BOLT, INSTALL, OBSTRUCTED, USE JO-BOLT SET	631	807	STFJ103	30
JO-BOLT, INSTALL WITH ARD JO-BOLT GUN MODEL 7 OR SIMILAR	VARIABLE	807	STFJIXX	30
JO-BOLT, INSTALL WITH HAND TOCK	VARIABLE	807	STFIJXX	30
JO-BOLT, INSTALL WITH PNEUMATIC TOOL	49	807	8PTJ fOL	25
JO-BOLT, REMOVE	VARIABLE	807	STFJRXX	30
JO-BOLT, REMOVE	VARIABLE	807	STFRJXX	31
JOINT(FLANGE), ALIGN	332	862	MOHJAOL	65
JOINT (FLANGE) . ALIGN WITH PIN	171	862	MOHJA02	65
JOINT(FLANGE), TIGHTEN OR LOGSEN, PRELIMINARY	VARIABLE	862	MTLJTXX	68
JOINT(MORTAR), CUT OFF, BOTTOM AND ONE END, THREE BRICKS, WITH TROWEL	246	861	MTLJC01	64
JOINT(MORTAR), CUT OFF, BOTTOM AND ONE END, ONE BRICK, WITH TROWEL	117	861	MTLJC02	64
JOINT(MORTAR), POINT UP HORIZCNTAL AND VERTICAL 8"X16" BLOCK	208	861	MTLJP01	64
JOINT(MORTAR), STRIKE, VERTICAL AND HORIZONTAL, ONE BLOCK, WITH TROWEL	195	861	MTLJS01	64
KNO8. OPEN ON ACETYLENE TORCH TIP	93	81X	MACKOOL	33
LADDER(EXTENSION), MOVE, WEIGHT TO 60 POUNDS	347	вхх	MOHLMOI	. 2
LADDER(EXTENSION), MOVE, LADDER 20 FEET LONG	440	8XX	MOHLMOZ	. 2
LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG	VARIABLE	80X	STLLRXX	6
LAMP(FLUORESCENT), INSTALL IN LAMP HOLDER	103	824	MDAL [0]	51
LAMPWICK. ORTAIN AND WRAP ON THREADS OF PIPE	823	862	MOHLOOL	65
LEADS(LAMPSOCKET), INSERT THROUGH GROMMET	524	824	SD4L101	52
LINE, INSCRIBE, CIRCULAR, USING FINGER AS A GUIDE	TABLE	8XX	TLOLIXX	2
LINE, MARK WITH CHALK LINE	VARTABLE	8XX	MLOLMXX	ı
LINE, STRIKE WITH CHALK LINE	281	860	MTLLS01	60

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	D#4STDP ELEMENT	PAGE
LOCK(WEDGE), INSTALL .	VARIABLE	80X	SNFLIXX	5
LOCK(WEDGE).REMOVE WITH PNEUMATIC TOOL	231	80X	SNFLROL	6
LOOP, PLACE ON TERMINAL AND CLOSE WITH PLIERS	96	82 X	MTLLPOI	46
LUG(TERMINAL), CONNECT TO SWITCH	64	82X	MD4LC01	43
LUG(TERMINAL), CRIMP TO WIRE	83	82X	MTLLCOL	46
MACHINE(ARC WELDING), SET UP	303	810	MJPMS01	39
MACHINE(FLAME CUTTING), PLACE ON RING	91	816	MSUMPOL	42
MACHINE(HOT DIMPLE), SET UP	4624	800	SSUM SO1	12
MACHINE(WELDING), SET UP, SCIAKY CR SIMILAR AND TEST WELD THREE SPOTS	3995	81X	SSUMS01	38
MACHINE(WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM	3461	81X	SSUMS02	39
MACHINE(WELDING). TURN ON OR OFF	74	81X	MACMT01	33
METAL.CUT WITH SNIPS.PER INCH.SHEET METAL	VARIABLE	80 X	STLMCXX	7
METAL.HEAT WITH DIMPLING DIE	VARIABLE	800	BPTMHXX	11
MIX(HOT BITUMINOUS), SPREAD WITH RAKE, PER SQUARE YARD	776	853	MTLMS01	55
MIXTURE(DRY AGGREGATE), DUMP INTO MIXER FROM HOPPER	593	844	MACMDO1	54
MORTAR, APPLY ON THREE BRICK LENGTHS; FURROW AND CUT JOINT	244	861	HNFMA02	62
MORTAR, APPLY TO DNE END AND CHE SIDE OF BRICK	82	861	MNFM401	62
MORTAR, APPLY TO ONE END OF BRICK	28	861	MNFMA03	62
NAIL, POSITION AND START TO DRIVE WITH HAMMER	59	860	MTLNPOL	60
NAIL.REMOVE WITH HAMMER	VARIABLE	860	STLNRXX	61
NAIL, START IN BOARD	VARIABLE	860	MTLNSXX	61
NAILS.GET FROM BOX	65	860	MOHNGOL	59
NUT(ANCHOR), INSTALL, DRILL NEW HOLES USING ANCHOR NUT AS ORILL GUIDE, FIRST NUT, EASY ACCESS	4502	807	SAEN103	23
NUT(ANCHOR), INSTALL, EASY ACCESS, DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, EACH ADDITIONAL NUT	2863	807	SVFN104	23
NUT(ANCHOR), INSTALL IN EXISTING HOLES, EASY ACCESS	VARIABLE	807	SNFNIXX	22
NUT(ANCHOR), INSTALL WITH TWO RIVETS, FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES)	4039	807	SVFN105	23
NUT(ANCHOR), INSTALL WITH TWO RIVETS, ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES)	1448	807	SVFN106	23
NUT (CHANNEL), INSTALL	VARIABLE	807	SHFINXX	22
OBJECT, RAISE AND LOWER WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT	886	86X	MMHOROL	57
OILER, PREPARE FOR FILLING	187	82X	MJPOP01	43

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
PAINT, SPRAY ON AIRCRAFT SURFACE, PER TEN SQUARE FEET	VARIABLE	845	MPAPSXX	55
PANEL (ELECTRICAL METER). INSTALL	72	824	MD4P101	51
PANEL (ELECTRICAL METER), REMOVE	42	824	MDAPRO1	51
PAPER, REMOVE FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED	90	82X	MOHPRO1	44
PART, CHECK FOR WARPAGE WITH 12-INCH SCALE	143	81X ·	MGMPC 01	34
PARTITION(ASSEMBLED).LIFT FROM FLOOR AND POSITION TO MARKS	704	860	MOHPLOI	59
PIECES.POSITION TO ASSEMBLE PITTSBURGH LOCK SEAM	VARIABLE	804	МОНРРХХ	12
PIKE DRIVE INTO POLE APPROXIMATELY 20 FEET ABOVE GROUND	157	821	MTLPD01	50
PINIORAM TYPE SHEAR), INSTALL	458	807	SVFPIOL	24
PIPE, CUT WITH PIPE CUTTER	3830	862	MTLPC01	68
PIPE, POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON HOIST)	194	862	MTFPP01	67
PIPE, POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH	264	862	манрро1	66
PIPE, POSITION IN THREADING MACHINE AND REMOVE, 4-20 FEET IN LENGTH	442	862	МЭНРРО2	66
PIPE, POSITION IN THREADING MACHINE CHUCK AND REMOVE, TO FOUR FOOT LENGTH	359	862	МЭНРРОЗ	66
PLANE(HAND).ADJUST	192	860	MTLPAOL	61
PLATE(FOUNDATION), MAKE LEVEL WITH SHIMS	- 277	860	10P9HCM	50
PLATE(FOUNDATION), POSITION TO BOLTS SET IN CONCRETE	441	860	1099НСМ	50
PLUG(COAXIAL), CUT FROM CABLE	VARIABLE	82 X	STLPCXX	47
PLUG/RECEPTACLE.PLACE IN PLASTIC BAG	1393	82 X	SUHPPOI	. 45
POINT(GLAZIER'S), INSTALL, PER POINT	265	865	WALLIOF	70
POLARITY(ARC WELDING MACHINE), CHANGE	293	813	MUPPCOL	39
POLE-CLIMB FROM LOWER TO UPPER CROSSARM	686	821	MBMCP02	48
POLE, CLIMB TO AND DESCEND FROM LOWER CROSSARM	5843	821	SBMPCOL	49
POLE, CLIMB TO LOWER CROSSARP, APPROXIMATELY 30 FEET	1513	821	MBMCPOL	48
POLE, ROTATE WITH CANT HOOK	415	821	MTLPRO1	50
POSITION, CHANGE HORIZONTALLY ON POLE	402	821	MSMPCOI	48 .
POUCH(TOOL), PUT AROUND WAIST WITH STRAP AND REMOVE	363	8XX	SJPPP01	
PRESSURE, PUMP IN BLOW TORCH TANK	280	814	SJPPPOL	41
RATCHET, REVERSE ON THREADING TOOL	54	8XX	MTLRR01	2
REGULATOR, READJUST, TWO TANKS	83	81 X	MJPRR01	35

OPEPATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWM STDP ELEMENT	PAGE
RING(FLAME CUTTING MACHINE), POSITION ON PLATE TO BURN CIRCLES	128	816	MSURPO1	42
RIVETIDEUTSCH DRIVE PINI, INSTALL, ALL SIZES	VARIABLE	800	SHEIRXX	8
RIVET(HI-SHEAR), INSTALL, FIRST	703	800	SNFR 109	10
RIVET(HI-SHEAR), INSTALL, ADDITIONAL	466	800	SNFR I 10	10
RIVET, CUT PROT ructing HEAD WITH RIVET GUN AND CHISEL	VARIABLE	800	SNFCRXX	а
PIVET, DRILL AND REMOVE, COUNTERSUNK OR UNIVERSAL HEAD	VARIABLE	800	SNFRDXX	9
RIVET, ORIVE OUT WITH HAMMER AND PIN PUNCH, 2 - MAN OPERATION	VARIABLE	830	SNFORXX	8
RIVET, INSPECT WITH LIGHT	226	800	SITRIOI	7
RIVET, INSPECT WITH LIGHT AND MIRROR	370	800	SITRIOZ	7
RIVET, INSTALL	VARIABLE	800	SNFRIXX	9
RIVET. INSTALL, BLIND, PULLED, ALL TYPES, FIRST	525	800	SNFR [11	10
RIVET, INSTALL, BLIND, PULLED, ALL TYPES, EACH ADDITIONAL RIVET	445	800 ·	SNFR I12	10
RIVET, INSTALL, COLLARED FASTENER, 3/16-1/4 INCH DIAMETER, FIRST RIVET	683	800	SNFR 107	9
RIVFT, INSTALL, COLLARED FASTENER 3/16-1/4 INCH DIAMETER, ADDITIONAL RIVET	335	800	SNFR108	9
RIVET, KNOCK OUT, COLLARED FASTENER, ALUMINUM	VARIABLE	800	SNERKXX	10
RIVET, PEMOVE, SOLID, ORIVEN	V AR I ABL E	800	SNFRRXX	11
RIVET, SET WITH PNEUMATIC GUN, PROCESS TIME ONLY	257	800	BPTR SOL	11
RODEWELDING + CHANGE IN ELECTRODE HOLDER	VARIABLE	81 X	MJPRCXX	35
POD(WELDING), CHANGE IN ELECTRODE HOLDER	354	810	SJPRCOL	39
RULE, USE TO MEASURE	317	8XX	MGMRU01	1
SANDER (DRUM) LOWER TO OR RAISE FROM FLOOR	49.	864	MTPSL01	70
SANDPAPEP, CHANGE ON DRUM SANDER	2233	864	SJPSCOL	70
SCAFFOLD(PORTABLE).LOCK AND UNLOCK WHEELS	992	86X	MAC SLO1	56
SCALE, KNOCK FROM WELD WITH HAMMER AND BRUSH	VARIABLE	81X	MCL SKXX	34
SEALANT, APPLY WITH PNEUMATIC SEALANT GUN	VARIABLE	807	SSRSAXX	26
SHEATHINGILEAD CABLE), CLEAN BY SCRAPING	335	821	MCL SCOL	49
SHIELC(WELDING), PUT ON AND REMOVE	173	81X	MJPSPOI	35
SHIELDIWELDING), RAISE AND LOWER	. 76	81X	MJP SRO1	36
SHINGLE(ASBESTOS), POSITION TO WALL	208	863	1092HCM	69
SHINGLE(BROKEN), REMOVE FROM WALL, ASBESTOS SHINGLE	. 485	863	MOHSRO1	69
SHINGLE, CUT WITH SHINGLE CUTTER, ASBESTOS SHINGLE	146	863	MTLSCOL	69

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP-	DWMSTDP ELEMENT	PAGE
SHINGLE, PUNCH HOLE WITH MANUAL PUNCH, ASBESTOS SHINGLE	VARIABLE	86.3	MTL SPXX	69
SIZE(DIE), CHANGE ON HEAVY DUTY PIPE MACHINE	133	862	MSUSC 01	67
SLAG. CHIP WITH CHIPPING HAMMER, CHISEL, AND BRUSH	VARIABLE	81X	MCL SCXX	33
SLAG, REMOVE WITH CHIPPING HAMMER	VART ABLE	81X	MCLSRXX	34
SLEEVES(RUBBER LINEMAN'S), PUT ON AND TAKE OFF	546	821	MJPSP01	49
SNAKE, ATTACH TO AND REMOVE FROM PIPE, PREPATORY TO LEAD POUR	1757	862	3 OAZ HCM	66
SOCKET(LAMP). INSERT IN REFLECTOR FITTING	65	82X	MD4 \$101	43
SOLDER.APPLY TO SEAM OR JOINT. SHEET METAL	VARTABLE	814	MVFSAXX	41
SPATTER, SCRAPE PER INCH OF WELD	30	81X	MCL SSO1	34
SPEED, ADJUST ON HEAVY DUTY PIPE MACHINE, THREE LEVERS	235	86 2	MSUSAO1	67
SPEED.ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW	177	844	MTPSAOL	54
SPEED DIAL(FLAME CUTTING MACHINE), ADJUST	65	816	MSUSAOI	42
SPLICE(CENTER), MAKE	120	82X	MWHSM01	47
SPLICE(COAXIAL CABLE). INSTALL TO SHIELDED WIRE	1076	82X	SWHS101	48
SPLICE(TWO WIRES). MAKE WITH STAKE-ON PLIERS	2367	82X	SWHSMOL	48
SPLICE.BEND PARALLEL TO CONDUCTOR WITH PLIERS	95	82X	MTLSBOL	46
SPLICE.FORM WITH PLIERS.PIGTAIL SPLICE	413	82X	MTLSF01	46
SPLICE, REMOVE	151	82X	S#H SRO1	48
SPOT(OR SEAM), WELD	VARIABLE	81X	SNFSWXX	37
SPOT(OR SEAM), WELD ON SCIAKY STATIONARY WELDING MACHINE	VARIABLE	81 X	SNEWSXX	37
SPOT, WELD	. 68	81 X	8PTSW01	38
STAND(PIPE), POSITION UNDER PIPE	331	862	MOHSPOI	66
STAPLE, INSTALL IN PIPE COVER	VARIABLE	862	MNFSIXX	64
STARTER (FLUORE SCENT), REPLACE IN FIXTURE	144	829	1072HCM	53
STEP(POLE) DRIVE INTO POLE WITH HAMMER	609	821	STL SDO1	51
STUD(AIRLOC), INSTALL, PER STUD	VARIABLE	807	SNF I SXX	22
STUD(AIRLOC), REMOVE PIN WITH AIRLOC TOOL	VARIABLE	807	SVFRSXX	24
STUDICAMLOC).INSTALL WITH CAMLOC PLIERS.NO RETAINING WASHER	VARIABLE	807	SNFSIXX	24
STUDICAMLOC).REMOVE.NO RETAINING WASHER	VARIABLE	807	SNFSRXX	24
STUDISTRESS HEAD CAMEDO), INSTALL, PER STUD	318	807	SNF S 1 0 3	24
NUD DETAUTOR RECRETIFIED STATES OF THE STATE	494	860	STPSIOL	61
SWITCH. TURN OFF OR ON. BRANCH LIGHTING CIRCUIT	161	82X	4JPST01	43
TANK, PUT ON HAND TRUCK	355	81 X	MOHTPO1	38

OPERATION/FLEMENT DESCRIPTION	TMU Value	OCCUP- ATION	GWMSTOP ELEMENT	PAGE
TANK.REMOVE FROM HAND TRUCK	126	81X	MOHTRO1	38
TAPE, APPLY TO WIRE SPLICE	443	82X	SNFTAOL	44
TENSION.RELEASE ON OXY-ACETYLENE WELDING REGULATOR	119	81X	MJPTRO1	36
THREAD, CUT IN CONDUIT	343	82X	MTLTCOL	46
THYRATON CONTROLS(SPOT WELDING MACHINE), SET	129	813	MSUTS01	41
TIE(SPOT).REMOVE	157	82X	SNFTR01	44
TILE, POSITION AND LEVEL TO ADJCINING TILE	417	861	SOHTP01	63
TIP(ELECTRODE), DETACH FROM SPOTWELDER	104	81X	MJPTD02	36
TIP(ELECTRODE).GRIND	VARIABLE	81X	SJPTGXX	37
TIP(ELECTRODE), INSTALL ON SPCTWELDER	121	81X	MJPTIOL	36
TIP(ELECTRODE-GAS), REPLACE	635	811	HJPTR01	41
TIP(ELECTRODE-WELDER), DRESS	728	81X	MCL TOOL	34
TIP(DXY-ACETYLENE TORCH), CHANGE WITH WRENCH	669	81X	SJPTCOL	36
TIP(TORCH), DETACH BY HAND	251	81 X	MJPTD01	36
TIP, CLEAN WITH EMERY CLOTH WRAPPED AROUND FILE, SPOT WELDER	224	81X	MCLTC03	34
TIP, CLEAN WITH SANDPAPER, WELDING GUN	VARIABLE	81X	MCLTCXX	34
TOOL(AIRLOC), SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD	1638	80 X·	SJPTS01	3
TOOL(PNEUMATIC SQUEEZE), SET UP AND ASIDE, FOR INSTALLATION OF PIN IN AIRLOC STUD	353	80X	SJPTS02	. 3
TOOL(REAMING), POSITION AND RETURN, TOLEDO 999 PIPE MACHINE OR SIMILAR	252	862	SEMTP01	64
TOOL, CONNECT TO AND DISCONNECT FROM EXTENSION CORD LYING ON FLOOR	578	86X	MTPTC01	59
TOOL, INSERT AND REMOVE, AIR HAMMER	119	81X	MTPTIO1	39
TOOLS, PREPARE FOR JO-BOLT INSTALLATION	922	807	MJPTP01	15
TORCH(ACETYLENE).LIGHT WITH FRICTION TYPE IGNITER	67	81X	MJPTLO1	36
TORCH(DXY-ACETYLENE).LIGHT AND TURN OFF	349	81X	SJPTL01	37
TORCH(DXY-ACETYLENE-CUTTING),ADJUST FOR CUTTING BEVEL	152	816	OATPLM .	42
TORCH ARM(FLAME CUTTING MACHINE), POSITION FOR BURNING CIRCLES OR STRAIGHT LINES	103	816	MSUTPOL	42
TRAMMEL, SET TO SCALE	VARIABLE	809	MJPTSXX	32
TRAMMEL.USE TO SCRIBE 90-DEGREE ARC.ONE OPERATOR.36-INCH RADIUS	328	809	MTLTUOL	33
TROWEL.FILL WITH MORTAR	132	861	MTLTF01	64
TUBINGIELECTRICAL METALLIC).BEND WITH MANUAL BENDER	VARIABLE	82X	STLTBXX	47
TURING. ASSEMBLE TO THREADED FITTINGS(BOTH ENDS OF TUBING)	270	862	MTFTA01	. 67

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
TUBING.BEND TO MATCH FITTING	167	862	MOHTBO1	66
TUBING. BEND WITH TUBING BENDER	VARI ABLE	862	HTLTBXX	68
TUBING-CUT OFF WITH HAND CUTTER	VARIABLE	862	MTLTCXX	68
TUBING. FLARE END	1284	862	STLTFOL	69
TUBING. REAM END WITH HAND REAMER	450	862	STLTROL	-69
TUBING. UNROLL FROM COTL	430	862	MOHTUO1	67
UNITISELF-PROPELLING), ENGAGE AND DISENGAGE, CONCRETE SAW	342	844	MTPUEOL	55
VALVE(ACFTYLENE AND DXYGEN), TURN OFF	69	81X	MACVTOL	33
VALVE(OXY-ACETYLENE CYLINDER), TURN OFF	321	81X	10TV9LM	36
VALVES(BLOWPIPE OXYGEN AND ACETYLENE). OPEN AND CLOSF	VARIABLE	811	MAC VOXX	40
VISE(PIPE). OPEN OR CLOSE AND TIGHTEN	266	862	MVSV001	69
WASHER(SOLID), INSTALL ON CAMLOC STUD ASSEMBLY	274	807	SNF # 102	25
WASHER(SPLIT), INSTALL ON CAMLOC STUD ASSEMBLY	326	807 .	SNEWIOL	24
WASHER(SPLIT), REMOVE FROM CAMLOC STUD, PER WASHER	140	807	SNFWROL	25
WEDGE, INSTALL TO HOLD DOOR FRAME IN PLACE	251	86X	SNF W I 01	57
WEDGE, INSTALL TO RAISE AND LEVEL DOOR FRAME	458	86X	SNF WIOZ	57
WELD(INERT GAS-ARC).MAKE	VARIABLE	810	SNFWMXX	40
WELD(SPOT).ACCOMPLISH	VARIABLE	81X	SNEWAXX	37
WELD.ACCOMPLISH.ARC WELD.PER INCH	VARIABLE	810	MVF#AXX	40
WELDER(SPOT).PREPARE(ADJUST HEAT)	5206	81X	MJPWPOI	36
WHEEL (FLAME CUTTING MACHINE) , REMOVE	155	816	MSUMROI	42
WHEEL.TIGHTEN OR LODSEN TO ADJUST REAR GUIDE CLAMPS.HEAVY DUTY PIPE MACHINE	418	862	MSUWT01	67
WIRE/WIRE BUNDLE, ROUTE IN AIRCRAFT	1596	825	SWHWROL	53
WIRE, ALIGN FOR FORMING IN ELECTRICAL BOX	70	82X	монымо1	44
WIRE.BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX	VARIABLE	82X	XX8WHCM	45
WIRE DISCONNECT FROM FISHTAPE AFTER PULLING	192	82X	MTL WD01	46
WIRE, INSERT THROUGH CLIP IN RACEWAY	50	824	MWHW IOI	52
WIRE BUNDLE-CLAMP TO BULKMEAD	1274	825	SCPWCOL	53
WIRE BUNDLE, COIL AND TIE	VARIABLE	82X	SHEWCXX	44
WIRE BUNDLE, TAPE AND TIE	1838 -	82 X	SNEWTOL	44
WIRE SUNDERTIE TO TOMBSTONE	1296	825	SwHwT01	-53
WRAPPING(PAPER).REMOVE FROM COIL OF WIRE	1611	82X	MUHWR01	45
ARAPPING(PAPER), REMOVE FROM 100-POUND BUNGLE OF ASPHALT	200	853	1094HCS	55

OPERATION/ELEMENT DESCRIPTION	. •	TMU VALUE	GCCUP- ATI ON	CWMSTDP Element	PA GE
ACCOMPLISH SPOT WELD		VAR I ABLE	81 X	SNEWAXX	3 7 .
ACCOMPLISH WELD.ARC WELD.PER INCH		VARIABLE	810	HNFWAXX	40
ADJUST AMPERAGE ON AC OR DC WECLING MACHINE		55	81 ×	MACAA 01	33
ACJUST DIE GAP (DIMPLING MACHINE-COLD)		1121	80,0	SSUGA01	12
ADJUST FLAME CUTTING SPEED DIAL		45	81 6	MSUSA01	42
ADJUST FLAME ON HAND TORCH	•	94	81 X	MJPFA01	35
ADJUST FRAME(AND ANCHERS)[N OPENING.METAL DOOR FRAME		296	66×	SOHAF01	58
ACJUST GASKET CUTTER BLADE WITH CLAMPING		411	86 X	MTLBA01	58
ADJUST GASKET CUTTER TO SIZE FOR RING GASKET		176	. 86X	MTLCA01	58
ACJUST HAND PLANE		192	860	MTLPA01	61
ADJUST HEAT CONTROL ON WELDING MACHINE		~ 56	81 X	MACCA 01	3,3
ADJUST DXY-ACETYLENE-CUTTING TORCH FOR CUTTING BEVEL		152	81 6	10AT9LW	42
ACJUST SPEED ON HEAVY DUTY PIPE MACHINE. THREE LEVERS		235	862	MSUSA01	67
ADJUST SPEED ON SELF-PROPELLING UNTT OF CONCRETE SAW		177	844	MTPSA01	54
ADJUST SPOT WELDING MACHINE CYCLE DIALS		187	81 X	MSUCA01	38
ALIGN FLANGE JOINT	•	1757	862	MGHSA01	66
ALIGN FLANGE JOINT WITH PIN		171	862	MOHJA02	65
ALIGN WIRE FOR FORMING IN ELECTRICAL BOX		70	.82 X	MOHWA01	44
APPLY ACHESIVE TO FLOOR WITH SERRATED TROWEL PER SQUARE FOOT		367	86X	MNFA101	57
APPLY ASPHALT FLCCD COAT FROM FOUR CAN		439	866	MOHAA 01	71
APPLY MCRTAR ON THREE BRICK LENGTHS; FURROW AND CUT JOINT		244	861	MNFMAU2	62
APPLY MORTAR TO ONE END OF BRICK		2.8	861	MNFMA03	62
APPLY MORTAR TO ONE END AND ONE SIDE OF BRICK		82	861	MNFMA01	62
APPLY SEALANT WITH PNEUMATIC SEALANT GUN		VARIABLE	807	SSRSAXX	26
APPLY SCLDER TO SEAM OR JCINT. SHEET METAL		VAR IABLE	814	MNF SA XX	- 41
APPLY TAPE TO WIRE SPLICE		443	82 X	SNFTA01	44
ASSEMBLE ANCHOR TO ROD	·	759	e21	MTFAA01	50
ASSEMBLE CARTRIDGE TO STUD		111	860	MCHCA01	59
ASSEMBLE METAL DOCK FRAME		1613	86 X	SOHFA01	58
ASSEMBLE TUBING TO THREADED FITTINGS (BCTH ENCS OF TUBING)	4.5	270	862	MTFTA01	67
ATTACH EXTENSION CHUTE TO TRANSIT MIXER		462	844	SOHCA 01	54
ATTACH CXYGEN AND ACETYLENE MOSES TO TORCH TORCH		954	81 ×	MJPHA01	35
BACK OFF DIE THREADING TODL. HAND HELD		617	862	MTLC801	68
BEND CONDUIT WITH HICKEY		VAR IABLE	82X	STLCBXX	46

DEFENSE WCRK MEASUREMENT STANDARD TIME DATA VERB/NOUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
BEND CONDUIT WITH HYDRAULIC BENDER	VAR IABLE	82X	MTPCBXX	47
BEND ELECTRICAL METALLIC TUBING WITH MANUAL BENDER	VARIABLE	82X	STLTBXX	47
BEND SPLICE PARALLEL TO CONDUCTOR WITH PLIERS	95	82X	MTLSB01	46
BEND TUBING TO MATCH FITTING	167	862	MOHTB 01	66
BEND TUBING WITH TUBING BENDER	VARIABLE	862	MTLTBXX	68
BEND WIRE 90 CEGREES FOR FORMING IN ELECTRICAL BOX	VARIABLE	82X	MGHWBXX	45
BREAK ARC AND MOVE TO NEXT WELD	1 53	81 0	MGHAB01	40
BREAK ASPHALT INTO PIECES WITH AXE.100- POUND BUNDLE	350	853	STLAB01	56
BREAK BRICK WITH TROWEL TO FIT	331	e61	MTLBB01	63
CHANGE ARC WELDING MACHINE POLARITY	293	81.0	MJPPC01	39
CHANGE BELT UN HAND HELD SANDING MACHINE	380	86 X	SJPBC01	56
CHANGE CHISEL IN PNEUMATIC HAND CHIPPER	243	8××	STPCC01	2
CHANGE DIE IN STOCK. HAND THREADING DIE	211	exx	MJFDC01	1
CHANGE DIE SIZE ON HEAVY DUTY PIPE MACHINE	133	862	MSUSC01	. 67
CHANGE HELI-ARC WELDING ELECTRODE	VAR IABLE	810	SJPECXX	39
CHANGE DAY-ACETYLENE TORCH TIP WITH WRENCH	669	es x	SJPTC01	36
CHANGE POSITION HORIZONTALLY ON POLE	402	821	MBMPC01	48
CHANGE SANDPAPER ON DRUM SANDER	2233	864	SJPSC 01	70
CHANGE TUNGSTEN ELECTRODE IN TORCH	350	81 X	MJPEC01	35
CHANGE WELDING FOR IN ELECTRODE FOLDER	VAR IABLE	81 X	MUPPCXX	35
CHANGE WELDING ROD IN ELECTRODE HOLDER	354	810	SJPRC31	39
CHECK DEOR FRAME FOR VERTICAL ALIGNMENT WITH LEVEL	1041	86 X	SITFC01	56
CHECK PART FOR WARPAGE WITH 12-INCH SCALE	143	81 X	MGMFC01	34
CHIP BRICK OUT WITH CHISEL AND HAMMER, PER CUBIC INCH	190	861	MTLCB01	64
CHIP CONCRETE WITH CHISEL AND HAMMER. SEVEN CUBIC INCHES	3699	844	MTLCC01	54
CHIP SLAG WITH CHIPPING FAMMER.CHISEL AND BRUSH	VAR I AGL E	81 X	MCLSCXX	33
CLAMP WIRE BUNDLE TO BULKHEAC	1274	825	SCP WC 01	53
CLEAN HIGH PRESSURE HOLE	62	81 1	MCLHC 02	41
CLEAN LEAC CABLE SHEATHING BY SCRAPING	335	821	PCLSC01	49
CLEAN TIP WITH EMERY CLOTH WRAPPED AROUND FILE, SPOT WELDER	224	81 X	MCLTC03	. 34
CLEAN TIP WITH SANDPAPER, WELDING GUN	VARIABLE	81 X	MCLTCXX	34
CLEAN TORCH TIP HOLES	751	81 1	#CLHC01	40
CLIMB POLE FROM LOWER TO UPPER CROSSARM	686	821	MBMCP02	4.8
CLIMB POLE TO LOWER CROSSARM.APPROXIMATELY 30 FEET	1513	821	MEMCP01	48

DEFENSE WORK MEASUREMENT STANDARD TIME DATA VERS/NOUN-INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	GCCUP- ATION	DWMSTDP ELEMENT	PAGE
CLOSE BLOWPIPE OXYGEN AND ACETYLENE VALVES	VARIABLE	811	MACVOXX	4G
COIL WIRE BUNDLE AND TIE	VARIABLE	82X	SNFWCXX	44
CONNECT ELECTRODE HOLDER CABLE TO ARC WELDER	546	81 X	MJPCC01	34
CONNECT TERMINAL LUG TO SWITCH	. 64	82×	MOALCO1	43
CRIMP TERMINAL LUG TO WIRE	83	52X	MTLLC01	46
CUT ALUMINUM WITH COMPOUND LEVER SNIPS. PER LINEAR INCH	VAR I ABLE	80×	STLACXX	6 .
CUT ALUMINUM WITH DISC.ROUTER OR SIMILAR- MOUNTED IN PNEUMATIC GUM. PROCESS TIME	1591	807	BPTACOL	25
CUT ALUMINUM WITH JEWELER.S OR SKIN SAW.	VARI ABLE	807	STLASXX	32
CUT ALUMINUM WITH SAW MOUNTED IN PNEUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING	1985	807	BPTAC 02	25
CUT AWAY DAMAGED AREA ALUMINUM ALLOY TO .064 INCH THICKNESS.RECTANGULAR AREA	VARIABLE	807	STLCAXX	32
CUT AWAY DAMAGED AREA.ALUMINUM ALLCY TO .064 INCH THICKNESS.CIRCULAR AREA	VAR IAÐLE	807	STLACXX	31
CUT BANDING ON REEL OF WIRE.CABLE OF SIMILAR	253	82 X	MTLBC01	45
CUT COAXIAL PLUG FROM CABLE	VARIABLE	82X	STLPCXX	47
CUT COLLAR FROM DRAW TYPE SHEAR PIN	VARIABLE	807	SNFCCXX	16
CUT HOLE IN ALUMINUM TO .064 INCH THICKNESS CIRCULAR ACCESS FCLE	VARIABLE	807	SFAHCXX	14
CUT HOLE IN ALUMINUM TO 064 INC. THICKNESS	VARIABLE	807	SFACHXX	13
CUT HOLE IN CARCBOARD CONTAINER WITH KNIFE	85	82 X	MTLHC01	45
CUT METAL WITH SNIPS.PER INCH.SHEET METAL	VARIABLE.	BOX	STLMCXX	7
CUT OFF MCRTAR JOINT WITH TROWEL.BOTTCM AND ONE END. THREE BRICKS	246	861	MTLJC01	64
CUT OFF MORTAR JOINT WITH TROWEL. BOTTOM AND ONE END. ONE BRICK	. 117	861	MTL JC 02	64
CUT OFF TUBING WITH HAND CUTTER	VARIABLE	862	MTLTCXX	68
CUT PIPE COVER WITH HACK SAW	VARIABLE	862	MTLCCXX	68
CUT PIPE WITH PIPE CUTTER	3830	862	MTLPC01	68
CUT RIVET PROTRUDING HEAD WITH RIVET GUN AND CHISEL	VARIABLE	800	SNFCRXX	e
CUT ROOFING FELT WITH KNI+E. PER LINEAR FOOT	VAR IABLE	866	MTLFCXX	71
CUT SHINGLE WITH SHINGLE CUTTER. ASPESTOS SHINGLE	146	863	MTLSC01	69
CUT THREAC IN CONDUIT	343	82 X	MTLTC01	46
CUT, CEMENT BAG OR SIMILAR USING TROWEL	- 660	861	MTL8C01	63
DESCEND FROM LOWER CROSSARM	5843	821	SEMPC01	49
DETACH ELECTRODE TIP FROM SPOTWELDER	104	81 X	SOOTALM .	36
DETACH TORCH TIP BY HAND	251	81 ×	1007qLM	36

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
DIMPLE HOLE(COLD AND HOT)	TABLE	800	TEMHOXX	7
DIP FIRE BRICK IN ADHESIVE	VARIABLE	861	MOHBOXX	62
DISCONNECT TOOL FROM EXTENSION CORD LYING FLOOR	. 578	86×	MTPTC01	55
DISCONNECT WIRE FROM FISHTAPE AFTER PULLING	192	82 X	MTL WD01	46
DISENGAGE SELF-PROPELLING UNIT CONCRETE SAW	342	844	MTPUE01	55
CRESS ELECTRODE-WELDER TIP	728	81 X	MCLTD01	34
ORILL HOLE WITH SPIRAL DRILL.PER STROKE	23	860	MTLHD01	60
DRILL HOLE WITH SPIRAL DRILL(ONE INCH HOLE)	VARIABLE	860	STLCHXX	61
DRILL RIVET AND REMOVE COUNTERSUNK CR UNIVERSAL HEAD	. VARIABLE	800	SNFRDXX	9
DRIVE PIKE INTO POLE.APPROXIMATELY 20 FEET ABOVE GROUND	- 157	821	MTLPD01	50
DRIVE POLE STEP INTO POLE WITH HAMMER	609	821	STL SD 01	- 51
DRIVE RIVET OUT WITH HAMMER AND PIN PUNCH. 2-MAN CPERATION	VARIABLE	800	SNFORXX	8
DUMP DRY AGGREGATE MIXTURE INTO MIXER FROM	593	844	MACMD01	54
EMPTY ASPHALT FROM BUCKET TO "LO-BOY"CART	271	866	MOHAE 01	71
ENGAGE TO START FLAME CUTTING MACHINE FEED AND TURN OFF	78	816	MACFE01	41
EXTEND OR RETRACT GUIDE HANDLES.CONCRETE SAW	273	844	MTPHE01	54
FABRICATE DOUBLER OR FILLER, FLAT CIRCULAR	VARIABLE	807	SFADF XX	13
FABRICATE FILLER(OR DOUBLER), FLAT RECTANG- ULAR, TO .064 INCH THICK	VAR IABLE	807	SFAFFXX	14
FILL BUCKET WITH HOT ASPHALT FROM KETTLE	212	866	MOH8F01	71
FILL TROWEL WITH MORTAR	132	861	MTLTF01	64
FLARE TUBING END	1284	862	STLTF01	69
FCRM COLD DIMPLE WITH HAND DIMPLER	VARIABLE	800	STEDFXX	12
FORM SPLICE WITH PLIERS.PIGTAIL SPLICE	413	82x	MTLSF01	46
GAUGE HOLE TO DETERMINE RIVET LENGTH	178	80×	MGMHG01	2
GET NAILS FROM EOX	65	860	MOHNGO1	59
GET PIPE COVER AND POSOTION ON PIPE.LENGTH OF COVER-THREE FEET	VARIABLE	862	MOHCGXX	65
GRIND ELECTRODE TIP	VARIABLE	81 X	SJPTGXX	37
GRIND HELI-ARC WELDING ELECTROCE	221	e1 o	MJPEG01	39
HEAT METAL WITH DIMPLING DIE	VARIABLE	800	SPTMHXX	11
HCLD COARD FOR SAWING	75	860	MJP8H01	59
INSCRIBE LINE, CIRCULAR, USING FINGER AS A GUIDE	TABLE	xxe	TLOLIXX	2
INSERT AND REMOVE AIR HANNER TOOL	- 119	81 X	MTPTIO1	39
INSERT CABLE END IN BOX CONNECTOR	132	824	MGHCI 01	52
INSERT GASKET BETWEEN FLANGE JOINTS TO TWO- INCH INSIDE DIAMETER	97	862	MOHGI 01	65

CEFENSE WORK MEASUREMENT STANDARD TIME DATA VERBINGUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
INSERT LAMP SOCKET IN REFLECTOR FITTING	65	82X	MOASI 01	43
INSERT LAMPSOCKET LEADS THROUGH GROMMET	524	824	SDAL 101	52
INSERT WIRE THROUGH CLIP IN RACEWAY	50	824	MWHWI 01	52
INSPECT RIVET WITH LIGHT AND MIRROR	370	800	SITRI02	. 7
INSPECT RIVET WITH LIGHT	226	800	SITRIOL	7
INSTALL AIRLOC STUD PER STUD	VARIABLE	807	SNF ISXX	22
INSTALL ANCHOR AND ROC ASSEMBLY IN HOLE AND	2477	821	MGHAI 01	49
INSTALL ANCHOR NUT DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, FIRST NUT, EASY ACCESS	4502	807	SNFN103	23
INSTALL ANCHOR NUT EASY ACCESS DRILL NEW HOLES USING ANCHOR NUT AS CRILL GUIDE. EACH ADDITIONAL NUT	2863	807	SNFN104	23
INSTALL ANCHOR NUT IN EXISTING HOLES.EASY ACCESS	VARIABLE	807	SNFNIXX	22
INSTALL ANCHOR NUT WITH TWO RIVETS. ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES	1448	807	SNFN106	23
INSTALL ANCHOR NUT WITH TWO RIVETS.FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES)	4039	807	SNFNI05	23
INSTALL ANCHOREC FASTENER MISSING FLOATING OR CHANNEL NUT ONLY.ALL TYPES.ADDITIONAL PIECE	454	807	SNFFI 02	16
INSTALL ANCHORED FASTENER MISSING	457	807	SNFF I 01	16
INSTALL ANCHORED FASTENER NUT PLATE: 1-MAN OPERATION: ALL TYPES: ACCITIONAL	31.80	807	SNFFI12	19
INSTALL ANCHORED FASTENER NUT PLATE: 1-MAN OPERATION: ALL TYPES: FIRST PIECE	5390	807	SNFFI11	19
INSTALL ANCHORED FASTENER CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS; EACH ADDITIONAL THREE NUT LENGTH	2880	807	SNFFI10	18
INSTALL ANCHOREC FASTENER CHANNEL NUT Assembly to existion holes with blind Rivets.first or single three-nut length	14970	807	SNFFI 09	18
INSTALL ANCHORED FASTENER CHANNEL NUT Assembly with blind rivets.each Additional three—nut length	4530	807	SNFF 1 08	1 e
INSTALL ANCHORED FASTENER CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	18850	807	SNFF107	18
INSTALL ANCHOREC FASTENER CAMLCO OR AIRLCO RECEPTACLE OR DZUS SPRING.2-MAN OPERATION.ADDITIONAL	3250	807	SNFFI06	18
INSTALL ANCHORED FASTENER CAMLCO OR AIRLGO RECEPTACLE.OR DZUS SPRING.2-MAN OPERATION. FIRST PIECE	5770	807	SNFFI05	17
INSTALL ANCHORED FASTENER CAMLCO OR AIRLOC RECEPTACLE.OR CZUS SPRING.1-MAN OPERATION.ADDITIONAL PIECE	1840	.807	SNFFIC4	17
INSTALL ANCHORED FASTENER CAMLCC OR AIRLOC RECEPTACLE.OR OZUS SPRING.1-MAN OPERATION.FIRST PIECE	3610	807	SNFF103	17

OPERATION/ELEMENT DESCRIPTION	TMU V al ue	GECUP- ATION	DWMSTOP ELEMENT	PAGE
INSTALL ANCHORED FASTENER RIV-NUT, ACCITIONAL	550	607	STFF 1 04	29
INSTALL ANCHORED FASTENER RIV-NUT, FIRST PIECE	610	807	STFF103	28
INSTALL ANCHORED FASTENER CILL NUT WITH TOCL.ACCITIONAL PIECE	730	807	STFFI02	28
INSTALL ANCHORED FASTENER DILL NUT WITH TOOL, FIRST PIECE	883	807	STFFI01	28
INSTALL ANCHORED FASTENER RIV-NUT, MANUAL MOTIONS ONLY	VARIABLE	807	MTFFIXX	26
INSTALL BAR CLAMP AND REMOVE	VARIABLE	exx	MCFCIXX	1
INSTALL BIT IN HAND DRILL	173	860	MJP8I02	59
INSTALL BOTTOM ERACE IN METAL DOOR FRAME	876	86 X	MNFBI 01	57
INSTALL CAMLOC GROMMET WITH SNAP RING	VARIABLE	807	SNFGIXX	21
INSTALL CAMLOC STUD WITH CAMLOC PLIERS, NO RETAINING WASHER	VARIABLE	807	SNFSIXX	24
INSTALL CENTER ERACE IN METAL DOOR FRAME	380	86× .	SNFEI01	57
INSTALL CHANNEL NUT	VAR TABLE	807	SNF INXX	22
INSTALL CLAMP ON WIRE BUNDLE AND SÉCURE TO BULKHEAD	1781	825	SCPC101	52
INSTALL COAXIAL CABLE SPLICE TO SHIELDED WIRE	1076	82X	SWHST01	48
INSTALL DEUTSCH DRIVE PIN FIVET.ALL SIZES	VARIABLE	800	SNF IRXX	, 8
INSTALL DIE IN AND REMOVE FROM DIE STOCK. TWO SETSCREWS SECURING	802	exx	SJP0101	1
INSTALL DRAW TYPE SHEAR PIN	458	807	SNFPI01	24
INSTALL ELECTRICAL FUSE	VAR IABLE	829	MOHFIXX	53
INSTALL ELECTRICAL METER PANEL	72	824	MDAPI01	51
INSTALL ELECTRODE TIF ON SPOTWELDER	121	e1 ×	MJPTI 01	36
INSTALL FLUORESCENT LAMP IN LAMP HOLDER	103	824	MDALI01	51
INSTALL GROMMET AND STUD CZUS FASTENER USING PNEUMATIC FLOOR DIMPLER	VARIABLE	607	SNF IGXX	22
INSTALL HI-LOK BOLT WITH MANUAL TOOLS	VARIABLE	807	STEBIXX	26
INSTALL HI-LOK BOLT.POWER TOOLS.ADDITIONAL	390	807	STFBIOS	27
INSTALL HI-LOK BOLT. POWER TOOLS. FIRST	473	807	STF8107	27
INSTALL HI-LOK COLLAR MANUAL TOOLS	VARIABLE	807	STFCIXX	27
INSTALL HI-SHEAR RIVET ADDITIONAL	466	800	SNFR I 1 0	10
INSTALL HI-SHEAR RIVET.FIRST	703	800	SNFFIOS	10
INSTALL HI-TORQUE BOLT WITH PNEUMATIC TOOL, FER BOLT	VAR I ABLE	807	STFIBXX	29
INSTALL HI-TORQUE BOLT WITH HAND TOOLS IN	1535	807	STF1804	29
INSTALL HI-TORQUE BOLT WITH HAND TOOLS IN UNOBSTRUCTED LOCATION	1 06 9	807	STF 1803	29
INSTALL HIGH STRENGTH FASTENER	VARIABLE	80×	SNFFIXX	4
INSTALL INTERPHONE JACK/FLUG	7306	823	SWHJI 01	51

. DEFENSE WORK MEASUREMENT STANDARD TIME DATA VERBINDUN INDEX

TMU VALUE	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
VARIABLE	807	STFJIXX	30
VARIABLE	807	STFIJXX	30
49	807	101LT48	25
631	e 07	STFJ103	30
914	82 X	MGH8101	44
80610	845	SPAII 01	55
586	82×	MOACIO1	43
26690.	845	SPAAI 01	55
VARIABLE	800	SNFR I XX	ç
335	800	SNFRI08	9
683	800	SNFR 107	. 9
445	800	SNFRI12	10
525	800	SNFR I 1 1	10
257	821	MOHHI 01	50
1330	807	SJPCI01	15
1411	621	SNFC I 01	49
274	807	SNFWI 02	25
326	807	SNFWI01	24
VARIABLE	862	MNFSIXX	64
31 8	807	SNFS103	24
494	860	STPSI 01	61
500	862	SSUDIOI	67
VARIABLE	80 X	SNFLIXX	5
251	86X	SNFWI 01	57
458	86X	SNFWIO2	57
VAR IABLE	800	SNFRKXX	10
VARIABLE	81 X	MCLSKXX	34
277	860	MOHPMO1	60
704	860	MOHPL 01	59
67	e1 x :	MUPTLOS	36
120	811	MJPBL01	41
349	81 X	SJPTL01	37
	VALUE VARIABLE VARIABLE 49 631 914 80610 586 26690 VARIABLE 335 683 445 525 257 1330 1411 274 326 VARIABLE 318 494 500 VARIABLE 251 458 VARIABLE 277 704 67	VALUE ATION VARIABLE 807 VARIABLE 807 49 807 631 807 914 82X 80610 845 586 82X 26690 845 VARIABLE 800 335 800 683 800 445 800 525 800 257 821 1330 807 1411 821 274 807 326 807 VARIABLE 862 318 807 494 860 500 862 VARIABLE 80X 251 86X 458 86X VARIABLE 800 VARIABLE 81X 277 860 704 860	VALUE ATION ELEMENT VARIABLE 807 STFJIXX VARIABLE 807 STFJIXX 49 807 8PTJI01 621 807 STFJI03 914 82X MCM8101 80610 845 SPAII 01 586 82X MOACID1 26650 845 SPAAI 01 VARIABLE 800 SNFRIXX 335 800 SNFRI08 683 800 SNFRI07 445 800 SNFRI12 525 800 SNFRI11 257 821 MCMHI01 1330 807 SJPCI01 1411 821 SNFCI01 274 807 SNFWI02 326 807 SNFWI01 VARIABLE 862 MNFSIXX 318 807 SNFSI03 494 860 STPSI01 500 862 SSUDI01 VARIABLE 80X SNFLIXX 251 86X SNFWI02 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI02 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI01 VARIABLE 80X SNFWI01 458 86X SNFWI02 VARIABLE 800 SNFRKXX VARIABLE 81X MCLSKXX 277 860 MCHPM01 704 860 MCHPM01 704 860 MCHPM01 704 860 MCHPM01

CEFENSE WORK MEASUREMENT STANCARD TIME DATA VERBINGUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU Value	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
LOAD CAULKING GUN WITH CARTRIDGE	125	86 X	MTLGL 01	58
LODSEN CAMLCC FASTENER	VARIABLE	80×	MNFFLXX	. 3
LCWER DRUM SANDER TO OR RAISE FROM FLOOR	49	864	MTPSL01	70
MAKE CENTER SPLICE	120	82×	MWHSM01	47
MAKE INERT GAS-ARC WELD	VARIABLE	81 0	SNFWMXX	40 .
MAKE SPLICE(TWO WIRES) WITH STAKE-ON PLIERS	2367	82X	SWHSM01	48
MARK LINE WITH CHALK LINE	VARIABLE	8XX	MLOLMXX	1
MEASURE JOOR FRAME AND CENTER IN OPENING	922	86×	MITFMO1	56
NCP ASPHALT ON SURFACE FROM WHEELED BUCKET	VARIABLE	866	XXMAHDM	71
MOVE EXTENSION LACDER WEIGHT TO 60 POUNCS	347	exx	MOHLM 01	2
MOVE EXTENSION LADDER .LACDER 2C FEET LONG	440	8XX	MOFLM02	2
MOVE FELT ASIDE FOR ACHESIVE APPLICATION	162	364	MGHFM01	70
MCVE FELT INTO POSITION AFTER ADHESIVE APPLICATION	263	864	MO+FM02	70
NAIL ROOFING FELT WITH ROOFING NAILS PER	68	866	MNFFN01	71
GETAIN AND WET ERICK PREPARATORY TO INSTALLATION	169	861	MOH8001	62
DETAIN CEMENT BAG AND CHEN	429	861	S0H8001	63
OBTAIN CLOTH FROM ROLL	288	862	M0HC001	65
DETAIN GASKET CUTTER FROM CASE AND PUT AWAY	256	86×	MOHCO01	57
GETAIN LAMPWICK AND WRAP ON THREADS OF PIPE	. 823	862	MOHL001	65
DETAIN SANDING ELECK AND ATTACH SANEPEPER	112	86X	MJP8001	56
OPEN KNOB ON ACETYLENE TORCH TIP	93	81 X	MACKOO1	33
OPEN OF CLOSE FUSED CUTOUT ON POLE WITH DISCONNECT STICK	202	821	₩CHCC01	49
OPEN POWDER ACTUATED GUN	99	860	MTPGC01	61
OPEN VISE(PIPE)	266	862	MVSV001	69
PLACE FIRE BRICK AND TAP INTO POSITION	280	861	MOHEP01	62
PLACE FLAME CUTTING MACHINE ON RING	91	816	MSUMP 01	42
PLACE GLASS IN WINDOW FOR FINAL INSTALLATION	138	865	MQHGP02	70
PLACE LCOF ON TERMINAL AND CLOSE WITH PLIERS	96	82X	MTLLP01	46
PLACE PLUG/RECEPTACLE IN PLASTIC BAG	1393	82X	SOHPP01	45
PLACE RADIUS PAR IN FLAME CUTTING MACHINE	145	816	MSUBP01	42
PLACE RUBBER HOSE ON ENERGIZED LINE	324	821	MOHHP01	50
PCINT MCRTAR JOINT, HORIZONTAL AND	208	861	MTLJP01	64
POSITION ASBESTOS SHINGLE TO WALL	208	863	MOHSP01	69
POSITION EIT (AND ERACE) FOR DRILLING AND FEMOVE	69	860	WTL8P01	60
POSITION ELOWPIPE TO METAL	. 45	811	MOHBP01	41
PUSITION DIE TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE	116	862	MTLDP01	68

DEFENSE WORK MEASUREMENT STANGARD TIME DATA VERBINDUM INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	GCCUP- ATION	DWMSTDP ELEMENT	PAGE
POSITION ELECTRODE AND STRIKE ARC	53	81 0	MNFEP01	40
POSITION FLAME CUTTING MACHINE TORCH ARM FOR EURNING CIRCLES OF STRAIGHT LINES	103	816	MSUTP01	42
POSITION FOUNDATION PLATE TO BOLTS SET IN CONCRETE	441	860	MOHPPO1	60
POSITION NAIL AND START TO DRIVE WITH HAMMER	59	860	MTLNP01	60
POSITION PIECES TO ASSEMBLE PITTSBURGH LOCK SEAM	VARIABLE	804	MGHPPXX	12
POSITION PIPE AND ENGAGE THREADS(PIPE	194	862	MTFPP01	67
POSITION PIPE IN THREADING MACHINE CHUCK AND REMOVE TO FOUR FOOT LENGTH	359	662	МОНРРОЗ	66
POSITION PIPE IN THREADING MACPINE AND	442	862	MOHPP02	66
POSITION PIPE IN THREADING MACHINE AND REMOVE. TO FCUR-FOOT LENGTH	264	862	MOPPP01	66
POSITION PIPE STAND UNDER PIPE	331	862	MOHSP01	66
PCSITION PNEUMATIC HAMMER FOR DRILLING AND REMOVE AFTER DRILLING	272	844	MTPHP01	54
POSITION POWDER ACTUATED GUN AND FIRE ONE BOLT OR STUD	221	860	MTPGP01	61
POSITION REAMING TOOL AND RETURN.TOLEDO 999 PIPE MACHINE OR SIMILAR	252	862	SEMTP01	64
POSITION RING(FLAME CUTTING MACHINE) ON PLATE TO BURN CIRCLES	128	81 6	MSURP01	42
POSITION SPIRAL ORILL TO MARK AND REMOVE	37	860	MTLDP01	60
POSITION THREADING DIE TO PIPE AND RETRACT. TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE	253	862	#SUDP01	67
POSITION TILE AND LEVEL TO ADJOINING TILE	417	861	SOHTP01	63
POUR GROUT AND WORK INTO CRACKS OF FLOOR TILE. PER SQUARE FOOT	333	861	SOHGP 01	63
PREPARE ANCHORED FASTENER HOLE AND INSTALL	VARIABLE	807	SNFFPXX	20
PREPARE DILER FOR FILLING	167	82×	PJPQP01	43
PREPARE SPOT WELDER.ADJUST HEAT	5206	81 X	PJPWP01	36
PREPARE TOOLS FOR JO BOLT INSTALLATION	922	807	MJPTPOI	15
PULL RAM ARM TO FREE ANVIL.HYDRAULIC CONDUIT Bender	108	82 X	PTPAP01	47
PUMP PRESSURE IN BLOW TORCH TANK	260	814	SJPPP01	41
PUNCH HOLE WITH PORTABLE PUNCH	VAR IABLE	8XX	MTLHPXX	2
PUNCH STINGLE HOLE WITH MANUAL PUNCH ASBESTOS SHINGLE	VARIABLE	863	MTLSPXX	69
PUT ON RUBBER LINEMAN'S SLEEVES	546	821	MJPSP01	49
PUT TANK ON HAND TRUCK	355	81 X	#QHTP01	38
PUT TOOL POUCH AROUND WAIST WITH STRAP AND REMOVE	363	8XX	SJPPP01	1
RAISE EQUIPMENT ON POLE WITH MANDLINE	359	821	MOHER 01	50
RAISE OBJECT WITH MANUALLY OPERATED HOIST. Average 28-FOOT Height	886	86 X	MMHOR01	57

CEFENSE WORK MEASUREMENT STANDARD TIME DATA VERB/NOUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU	GCCUP- ATION	DWMSTOP ELEMENT	PAGE
RAISE WELDING SHIELD	76	81 X	MJPSR01	36
READJUST REGULATOR TWO TANKS	83	81 ×	MJPRR01	35
REAM END CONDUIT ONE INCH CLAMETER, HANC REAMER	175	82 X	MTLCR01	45
REAM HOLE WITH HAND REAMER	VARIABLE	80×	MTLHRXX	6
REAM TUBING END WITH HAND REAMER	450	862	STLTR01	69
RELEASE TENSION ON OX -ACETYLENE WELDING REGULATOR	119	81 X	MJPTR01	36
REMOVE AIRLOC STUC PIN WITH AIRLOC TOOL	VARIABLE	807	SNFRSXX	24
REMOVE ANCHORED FASTENER WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY	VAR TABLÈ	807	SNFRFXX	24
REMOVE ANCHORED FASTENER CILL NUT	VAR IABLE	807	STFFRXX	29
REMOVE BELTING FROM LEAD SHEATHED CABLE	283	821	MOHERO1	49
REMOVE BIT FROM BRACE	234	86 0	MJPBI01	59
REMOVE BIT FROM SPIRAL DRILL	102	860	MJ68103	59
REMOVE PLINC FASTENER, CEUTSCH CRIVE PIN RIVET	VAR IABLE	e00	SNFFRXX	8
REMOVE BROKEN SHINGLE FROM WALL.ASBESTOS Shingle	485	863	MOHSR01	69
REMOVE BURNING GOGGLES	110	81 ×	MJPGP01	35
REMOVE CAMLOC GROMMET SECURED WITH SNAP RING	VARIABLE	807	SNFGRXX	21
REMOVE CAMLOC STUD NO RETAINING WASHER	VAR IABLE	807	SNFSRXX	24
PEMOVE CLAMP FROM BULKHEAC	1026	825	SCPCR02	53
REMOVE DENT FROM ALUMINUM TO .064INCH THICKNESS:PER SQUARE INCH	VARIABLE	807	STLORXX	32
REMOVE ECP CLAMP FROM WIRE BUNDLE	1173	825	SCPCR01	52
REMOVE ELECTRICAL METER PANEL	42	824	MDAPRO1	52
REMOVE EMPTY BUCKET FROM HOIST AND ATTACH Full bucket at ground level	198	866	MOHBR 01	71
REMOVE FILLER AND CUT-LEAC SHEATHED CABLE	95	821	MOHFRO1	50
REMOVE FLAME CUTTING MACHINE WHEEL	155	81.6	MSUWR01	42
REMOVE GASKET FROM CUTTING BOARD AND ASIDE SCRAP	245	86×	MOHGRO1	58
REMOVE GLASS FROM WINDOW FOR TRIAL INSTALL-	98	865	MCHGP01	70 :
REMOVE GROMMET AND STUDICIZUS FASTERR)MANUAL	VARIABLE	807	MNFGRXX	15
REMOVE HI-LOK BOLT MANUAL TOOLS	VAR IABLE	807	STFBRXX	27
REMOVE FI-LCK CCLLAR MANUAL TOOLS	VARIABLE	807	STFCRXX	28
REMOVE INTERPHONE JACK/PLUG	2376	823	SWHJR01	51
REMOVE JJ-BCLT	VARIABLE	807	STFRJXX	31
REMOVE JO-BCLT	VARIABLE	807	STFJRXX	3 C
REMOVE LAMINATION ONE LAYER FROM SHIMSTOCK. To two inches wide and six inches long	VARIABLE	80×	STLLRXX	é

	TMU	OCCUP-	CWMSTDP	PAGE
OPERATION/ELEMENT DESCRIPTION	VALUE	ATION	ELEMENT	FAGE
REMOVE NAIL WITH HAMMER	VARIABLE	860	STLNEXX	. 61
REMOVE PAPER BACKING FROM TILE FIELD:13*X26*	574	861	SCHBR01	63
REMOVE PAPER FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED	90	82X	MOHPR 01	44
REMOVE PAPER WRAPPING FROM COIL OF WIRE	1611	82X	MOHWR 01	45
REMOVE PAPER WRAPPING FROM 100-POUNC SUNDLE OF ASPHALT	200	853	SCHWR01	55
REMOVE RIVET: SOLID. OR IVEN	VARIABLE	800	SNFRRXX	11
REMOVE SLAG WITH CHIPPING HAMMER	VARIABLE	81 X	MCLSRXX	34
REMOVE SPLICE	151	82 X	SWHSR01	. 48
REMOVE SPLIT WASHER FROM CAMLOC STUC.PER WASHER	140	807	SNF WR 01	25
REMOVE SPOT TIE	1 57	82 X	SNFTR01	44
REMOVE TANK FROM HAND TRUCK	126	81 X	MOHTRO1	3 &
REMOVE WEDGE LOCK WITH PNEUMATIC TOOL	231	80 X	SNFLR01	6
REMOVE WELDING SHIELD	173	81 X	MJPSP01	35
REPLACE ANCHORED FASTENER	VARIABLE	807	SNFFRXX	21
REPLACE BULB WITH BULB CHANGER	VAR IABLE	829	STLBRXX	54
REPLACE ELECTRODE-GAS TIP	635	81 1	MJPTR01	41
REPLACE FLUORESCENT STARTER IN FIXTURE	144	829	MOHSRO1	53
REPLACE HIGH STRENGTH FASTENERS	VARIABLE	80×	SNEFRXX	٤
REPOSITION HICKEY ON CONDUIT	134	82 X	MTLHR01	45
REVERSE RATCHET ON THREADING TOOL	54	8×X	MTLRR01	2
ROTATE POLE WITH CANT HOOK	415	821	NTLFR01	50
ROUTE WIRE/WIRE BUNDLE IN AIRCRAFT	1596	825	SWHWR 01	53
SAW BOARD IN MITER BOX	VARIABLE	86 0	MTLESXX	60
SCRAPE SPATTER PER INCH OF WELD	30	81 X	MCLSS01	34
SCREED MORTAR SETTING BED PER TWO SQUARE FEET	357	861	MTLBS01	63
SEAT TURNLOCK FASTENER AND TIGHTEN	VAR IABLE	80 X	SNFFSXX	5
SET HUCK LCCK BOLT WITH PULL TYPE GUN	50	807	BPTBSC1	25
SET RIBET WITH PNEUMATIC GUN PROCESS TIME ONLY	257	800	8PTRS01	11
SET SPOT WELDING MACHINE THYRATON CONTROLS	129	813	MSUTS01	. 41
SET TRAMMEL TO SCALE	VARIABLE	809	XXZTALM	32
SET UP AIRLOC TOOL FOR INSTALLATION CR REMOVAL OF PIN IN AIRLOC STUD	1638	80 X	SJPTS01	. 3
SET UP ARC WELDING MACHINE	303	e1 0	MJFMS01	39
SET UP DIMPLE MACHINE(COLD)	3359	800	SSUCS01	11
SET UP HOT DIMPLE MACHINE	4624	e00	SSUMSOL	12
SET UP PNEUMATIC SQUEEZE TOOL AND ASIDE.FOR INSTALLATION OF PIN IN AIRLOC STUD	353	80×	SJPTS02	3

CEFENSE WORK MEASUREMENT STANDARD TIME DATA . VERS/NOUN INDEX

OPERATION/ELEMENT CESCRIPTION	TMU VALUE	OCCUP- ATION	OWMSTOP ELEMENT	PAGE
SET UP RIVET GUN.CHANGE RIVET SET	173	800	SJPGS02	7
SET UP RIVET GUN. INITIAL	424	800	SJPGS01	7
SET UP WELDING MACHINE-SCIARY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM	3461	61 X	SSUMS02	39
SET UP WELDING MACHINE, SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS	39 9 5	61 X	SSUMSOL	36
SHOOTH CLOTH AFTER WRAPPING ARCUND PIPE	134	862	MOHCS01	65
SMOOTH MORTAR SEETING BED PRIOR TO LEVELING. PER FOUR SQUARE FEET	591	861	MOH8501	€2
SPLIT RIVET COLLAR WITH PNEUMATIC RIVET GUN. PROCESS TIME ONLY.	153	507	8PTCS01	25
SFRAY PAINT ON AIRCRAFT SURFACE, PER TEN SQUARE FEET	VARIABLE	845	MPAPSXX	55
SPREAD GRAVEL WITH SHOVEL.PER SHOVELFUL	261	866	MTLGS01	72
SPREAD HOT BITUMINOUS MIX WITH RAKE PER SQUARE YARD	776	853	MTLMS 01	55
START NAIL IN BCARD	VAR I ABLE	86 0	MTLNSXX	61
STRIKE LINE WITH CHALK LINE	261	860	MTLLS01	60
STRIKE. MORTAR JOINT VERTICAL AND HORIZONTAL ONE BLOCK, WITH TROWEL	195	861 .	MTLJS01	64
TAKE OFF WELDERS JACKET	435	61 X	PJPJP01	35
TAP BRICK INTO POSITION FOR TIE-IN	673	861	MOHBT02	63
TAP JAMB FIRE BRICK INTO POSITION ON OUTSIDE CORNER	. , 475	861	MOHETO1	62
TAPE WIRE BUNDLE AND TIE	1838	82×	SNFWT01	44
TIE WIRE BUNDLE TO TOMBSTONE	1296	625	SWHWT01	53
TIGHTEN CAMLOC FASTENER	VARIABLE	80X	MNFFTXX	3
TIGHTEN OF LOOSEN PRELIMINARY JOINT FLANGE	VAR I ABLE	862	XXTLJTM	68
TIGHTEN OR LOOSEN WHEEL TO ADJUST REAR GUIDE CLAMPS, HEAVY CUTY PIPE MACHINE	418	862	MSUWT01	67
TURN O+F ACETYLENE AND DXYGEN VALVE	69	81 X	MACVT01	33
TURN OFF DXY-ACETYLENE CYLINDER VALVE	321	81 X	HJPVT01	. 36
TURN OFF WELDING MACHINE	74	81 X	MACMT01	. 33
TURN ON BRANCH LIGHTING CIRCUIT SWITCH	161	82 X	MJPST01	. 43
TURN ON GAS, LIGHT, AND TURN OFF, GAS EURNER FOR HEATING SOLDERING IRON OR SIMILAR	130	8XX	MJPGT01	1
UNLOCK PORTABLE SCAFFOLD WHEELS	992	86 X	MACSL 01	56
UNLOCK TURNLOCK FASTENER	VARIABLE	80 X	SNFFUXX	5
UNROLL ROCFING FELT 15 FEET	352	86 X	MOHFU01	57
UNROLL TUBING FROM COIL	430	862	MOHTUO1	67
UNWRAF ELECTRICAL FISHTAPE FROM AND WRAP ON	VARIABLE	82 X	MJPFUXX	43
USE DIVIDERS TO SCRIBE 90-DEGREE ARC	152	809	MTLDU01	33
USE ELECTRICAL FISHTAPE.DISENGAGE TWO TAPES	48	82X	MTLFU02	45

CEFENSE WORK MEASUREMENT STANDARD TIME DATA VERB/NOUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	HUDOC HE ITA	OWMSTDP ELEMENT	PAGE
USE ELECTRICAL FISHTAPE, FEED INTO CINCUIT	68	82×	MTLFU01	45
USE HOLE FINDER, LEAF TYPE	VAR I ABLE	80×	MTLFUXX	ć
USE PLUMB BCB	538	86 X	MTLBÚ01	58
USE RULE TO MEASURE	. 317	8XX	MGMRU01	. 1
USE TRAMMEL TO SCRIBE 90-DEGREE ARC.ONE OPERATOR.36-INCH RADILS	328	809	MTLTU01	33
WELD SPOT	68	81 X	BPTSW01	38
WELD SPOT OR SEAM	VARIABLE	81 X	SNFSWXX	37
WELD SPOT(OR SEAM)ON SCIAKY STATIONARY WELDING MACHINE	VARIABLE	81 X	SNFWSXX	37
WRAP FITTING WITH CHICKEN OR SIMILAR WIRE	31 0	862	MOHFW01	65

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DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM (DWMSTDP)

PART TWO - STRUCTURAL WORK OCCUPATIONS STANDARD TIME DATA

SECTION II - DWMSTDP ELEMENT LISTING

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NO	8XX	MAC	LFAIR	MCPCIXX	VARIABLE 236 185	CLAMP(BAR), INSTALL AND REMOVE STARTS-WITH REACH TO BAR CLAMP INCLUDES-ALL MOTIONS NECESSARY TO GET BAR CLAMP FROM BENCH, POSITION CLAMP TO PART AND CLOSE CLAMP ON PART; REACH TO CLAMP, OPEN CLAMP, MOVE CLAMP FROM PART AND ASIDE CLAMP TO BENCH ENDS-WITH RELEASE CLAMP CASE OI INSTALL BAR CLAMP OZ REMOVE BAR CLAMP
NF	8XX	MAF	778	MGMRU01	317	RULE.USE TO MEASURE STARTS-WITH RULE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO STOOP AND PLACE RULE TO FIRST REFERENCE POINT, ARISE, WALK TWO PACES TO OTHER END OF RULE, STOOP AND PLACE RULE TO SECGND REFERENCE POINT, READ RULE, PICK UP RULE, AND ARISE ENDS-WITH OPERATOR STANDING ERECT WITH RULE IN HAND CONDITIONS-APPLICABLE TO MEASUREMENTS GREATER THAN ONE BUT LESS THAN TWO FULL LENGTHS OF RULE.TIME TO UNFOLD AND FOLD RULE NOT INCLUDED
NF	вxx	MAF	3529	4JP0C01	211	DIE, CHANGE IN STOCK, HAND THREADING DIE STARTS-WITH DIE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO RELEASE RATCHET, REMOVE AND ASIDE DIE, GET DIE, POSITION IN STOCK, AND ENGAGE RATCHET ENDS-WITH DIE IN HAND
NF	8XX	MAF · .	2398/99	MJPGTO1	130	GAS.TURN ON, LIGHT, AND TURN OFF, GAS BURNER FOR HEATING SCLDERING IRON OR SIMILAR STARTS—WITH REACH TO LIGHTER INCLUDES—ALL MOTIONS NECESSARY TO GET LIGHTER, LIGHT BURNER WHILE TURNING VALVE TO START GAS FLOW, AND ASIDE LIGHTER; AND TURN VALVE CLOSED TO EXTINGUISH FLAME ENDS—WITH RELEASE OF VALVE
FFE	8XX	MAA	GTLDRA6	SJPDIO1	802	DIE, INSTALL IN AND REMOVE FROM DIE STOCK, TWO SETSCREMS SECURING STARTS-WITH GET DIE STOCK INCLUDES-ALL MOTIONS NECESSARY TO LODSEN TWO SETSCREWS TWO THREADS EACH BY HAND, GET DIE, PLACE DIE IN STOCK, TURN TWO SETSCREWS IN TWO THREADS EACH BY HAND, GET SCREWDRIVER, TIGHTEN TWO SETSCREWS, AS IDE SCREWDRIVER; GET DIE STOCK, GET SCREWDRIVER, LODSEN TWO SETSCREWS, AS IDE SCREWDRIVER, AND INVERT DIE STOCK TO REMOVE DIE ENDS-WITH AS IDE DIE AND DIE STOCK
NF	, 8XX	MAF	3897	SJPPPOL	363	POUCH(TOCL), PUT AROUND WAIST WITH STRAP AND REMOVE STARTS-WITH REACH TO POUCH INCLUDES-ALL MOTIONS NECESSARY TO GET POUCH, MOVE POUCH TO HIP, MOVE STRAP AROUND WAIST, FASTEN BUCKLE, AND PASS END OF STRAP THROUGH GUARDIAND REACH TO STRAP, UNBUCKLE, REMOVE FROM WAIST, WRAP STRAP AROUND POUCH, AND ASIDE POUCH
Δ Ε	8xx	MAW	SDCEAXX	MLOLMXX	VARIABLE	LINE, MARK WITH CHALK LINE STARTS-WITH LINE IN RIGHT HAND, LEFT HAND REACH TO LINE INCLUDES-ALL MOTICNS NECESSARY TO POSITION STRING TO DESIRED LOCATION, HOLD STRING TAUT AND STRIKE LINE AND MOVE STRING AWAY ENDS-WITH STRING IN HANDS CONDITIONS-APPLICABLE TO MARKING FOR DECAL INSTALLATION OR SIMILAR CASE OI MARK ONE-FOOT GUIDE LINE OZ MARK THREE-FOOT GUIDE LINE

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	зхх	MAA	AMRGSXX	TLOLIXX	TABLE	LINE.INSCRIBE.CIRCULAR.USING FINGER AS A GUIDE STARTS-WITH GET MARKING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET PART AND POSITION FOR MARKING.POSITION FINGER TO EDGE OF PART, AND ORAW CIRCLE USING THE FINGER RESTING ON EDGE OF PART AS GUIDE ENDS-WITH ASIDE PART, MARKING DEVICE IN HAND
						DIAMETER OF CIRCLE (INCHES) 2=6 6=12 A 8
						FIRST CIRCLE A 659 1157 ADDITIONAL B 527 1325 CIRCLE
ΝF	8XX	MAF	2372	MOHLMO1	347	LADDER(EXTENSION), MOVE, WEIGHT TO 60 PDUNDS STARTS-WITH REACH TO LADDER INCLUDES-ALL MOTIONS NECESSARY TO TILT LADDER FORWARD, LIFT LADDER, SIDESTEP WITH LADDER FIVE FEET, SET LADDER DOWN, LEAN LADDER AGAINST SUPPORTING SURFACE, AND MOVE LADDER TO AGJUST ANGLE ENDS-WITH RELEASE OF LADDER
NF	ахх	MAF	4106	MOHLMO2	440	LADDER(EXTENSION), MOVE, LADDER 20 FEET LONG STARTS-WITH REACH TO LADDER INCLUDES-ALL MOTIONS NECESSARY TO STAND LADDER UPRIGHT, LIFT LADDER, CARRY ONE PACE TO NEW LOCATION, SET LADDER DOWN, AND POSITION AT LOCATION SINDS-WITH RELEASE OF LADDER CONDITIONS-LACDER WEIGHS TO 75 POUNDS.FOR EACH
	• .	. •				ADDITIONAL PACE LADDER IS CARRIED ADD ONE OCCURENCE OF U BBM HJ 31
Δ F	sxx ·	МАД	5144R40	MTLHPXX	90 51	HOLE, PUNCH WITH PORTABLE PUNCH STARTS-WITH PUNCH IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GET THE MATERIAL TO BE PUNCHED, MOVE PUNCH TO MATERIAL AND POSITICN, MOVE PUNCH AGAINST MATERIAL, RELEASE MATERIAL WITH LEFT HAND(RIGHT HOLDING PUNCH), GRASP PUNCH WITH LEFT HAND, MOVE PUNCH HANDLE TO PUNCH HOLE, OPEN PUNCH, RELEASE PUNCH WITH LEFT HAND ENDS-WITH PUNCH HELD BY RIGHT HAND CASE 01 PUNCH FIRST OR ONLY HOLE 02 PUNCH EACH ADDITIONAL HOLE
% F	8XX	MAF	3530	MTLRR01	54	RATCHET, REVERSE ON THREADING TOOL STARTS-WITH REACH TO RATCHET RELEASE PIN INCLUDES-ALL MOTIONS NECESSARY TO DISENGAGE PIN AND TURN TO REVERSE RATCHET ON HAND THREADING TOOL ENDS-WITH RELEASE OF PIN
. NF	8XX	MAF	1315	STPCC01	243	CHISEL, CHANGE IN PNEUMATIC HAND CHIPPER STARTS-WITH REACH TO CHIPPER TO HOLD INCLUDES-ALL MOTIONS NECESSARY TO GET CHISEL WITH OTHER HAND, REMOVE AND ASIDE CHISEL, GET CHISEL, AND INSERT IN CHIPPER ENDS-WITH CHIPPER IN HAND CONDITIONS-APPLICABLE TO PNEUMATIC HAND CHIPPER, ELECTRIC HAND HAMMER, OR SIMILAR
FFD	80X	MAA	K SMGHO1	МБМНБО 1	178	HOLE, GAUGE TO DETERMINE RIVET LENGTH STARTS-WITH GET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO POSITION GAUGE TO HOLE, SLIDE GAUGE BAR TO SURFACE, AND READ GAUGE ENDS-WITH ASIDE GAUGE

DATA	OCCUP=	QUALITY	SOURCE	DWMSTDP	TMU	OPERATION/ELEMENT DESCRIPTION
SOURCE	ATION	•••	CODE	ELEMENT	VALUE	
NAA	80X	MAA	AMRQN43	SJPTS01	1638	TOOL(AIRLOC), SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD STARTS-WITH GET AIRLOC TOOL INCLUDES-ALL MOTIONS NECESSARY TO PLACE TOOL IN VISE, OPEN HANDLE, GET SCREWORIVER, REMOVE SCREW, ASIDE SCREW AND SCREWORIVER, REMOVE THREADED SPACER, LIFT TURN BAR FROM HANDLE, LIFT BAR AND GUIDE PIN FROM SPRING, REVERSE BAR, POSITION BAR IN HANDLE, ENGAGE GUIDE PIN TO SPRING, INSTALL THREADED SPACER, GET SCREW- DRIVER, INSTALL SCREW, ASIDE SCREWDRIVER AND REMOVE TOOL FROM VISE ENDS-WITH ASIDE TOOL
NAA	80X	MAA	AMRQN44	SJPTS02	353	TOOL(PNEUMATIC SQUEEZE), SET UP AND ASIDE, FOR INSTALLATION OF PIN IN AIRLOC STUD STARTS-WITH GET PNEUMATIC SQUUEZE INCLUDES-ALL MOTIONS NECESSARY TO GET FLUSH SQUEEZE SET, INSTALL SLOTTED SQUEEZE SET, INSTALL FLUSH SQUEEZE SET; AND REMOVE FLUSH SQUEEZE SET, REMOVE SLOTTED SQUEEZE SET, AND ASIDE BOTH SETS ENDS-WITH ASIDE PNEUMATIC SQUEEZE
NAA	80X	MAA	OTFCHXX	MNFFLXX	VARIABLE	FASTENER (CAMLOC), LOOSEN STARTS-WITH GET SCREWDRIVER INCLUDES-ALL MOTIONS NECESSARY TO POSITION SCREWDRIVER TO FASTENER STUD, TURN STUD 90 DEGREES TO UNLOCK, AND TURN STUD 1.5-3 REVOLUTIONS TO UNFASTEN ENDS-WITH ASIDE SCREWDRIVER CONDITIONS-APPLICABLE TO CAMLOC HIGH STRESS PANEL FASTENER CASE O1 FIRST OR SINGLE FASTENER
			-		320	02 EACH ADDITIONAL FASTENER IN A SERIES
· NAA	80X	MAĄ	OTFCHXX	MNFFTXX	VARIABLE	FASTENER (CAMLOC).TIGHTEN STARTS-WITH GET SCREWDRIVER INCLUDES-ALL MOTICNS NECESSARY TO POSITION SCREWDRIVER TO FASTENER STUD. TURN STUD COUNTERCLOCKWISE TO ALIGN.PUSH IN TO SEAT STUD.TURN STUD 90 DEGREES TO LOCK.AND TURN STUD 1.5-3 REVOLUTIONS TO TIGHTEN TO RECEPTACLE ENDS-WITH ASIDE SCREWORIVER CONDITIONS-APPLICABLE TO CAMLOC HIGH STRESS PANEL FASTENER
					435 366	CASE OF FIRST OR SINGLE FASTEVER OF EACH ADDITIONAL FASTENER IN A SERIES

DATA		QUALITY	SOURCE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	80X	MBA	AMRHNXX	SNFFEXX	VARIABLE	FASTENER(HIGH STRENGTH), INSTALL STARTS-WITH GET TOOLS TO DRILL HOLE
						INCLUDES-ALL MOTIONS NECESSARY TO LOCATE HOLE.
						DRILL HOLE, RECESS HOLE, DEBURR HOLE, CHAMPER
						HOLE FOR PROPER FIT, AND INSTALL FASTENER
						ENDS-WITH FASTENER INSTALLED
						CONDITIONS-APPLICABLE TO ALL SIZE HUCK STUMP
		•				TYPE SHEAR PINS, HIGH SHEAR RIVETS, OR SIMILAR, IN HOLES WITH INTERFERENCE FIT (CASES 01-08).
					•	APPLICABLE TO HUCK PULL TYPE SHEAR PINS OR
						SIMILAR TO 3/8 INCH DIAMETER, ALL LENGTHS, AND
						TO HUCK GUN MODELS 200,352, OR SIMILAR (CASES
						09-121.APPLICABLE TO HI-LOK FASTENERS TO 9/16
						INCH DIAMETER(CASES 13-16).ALL CASES
						APPLICABLE TO ALUMINUM .020250 INCH
		•				THICKNESS OR STAINLESS STEEL .020050 INCH
_					8900	THICKNESS INCLUDES SETUP OF TOOLS.
					8900	CASE O1 FIRST HI=SHEAR FLUSH RIVET, 1=MAN OPERATION
					1770	02 EACH ADDITIONAL HI-SHEAR FLUSH RIVET,
					1	1-MAN OPERATION
					10330	03 FIRST HI-SHEAR FLUSH RIVET, 2-MAN
						OPERAT ION
					2320	04 EACH ADDITIONAL HI-SHEAR FLUSH RIVET.
						2-MAN -OPERATION
					5510	05 FIRST HI-SHEAR FLAT HEAD RIVET, 1-MAN
					1620	OPERATION .
					1530	06 EACH ADDITIONAL HI-SHEAR FLAT HEAD
			*		6940	RIVET,1-MAN OPERATION OF FIRST HI-SHEAR FLAT HEAD RIVET,2-MAN
					6,40	OPERATION
					2080	OS EACH ADDITIONAL HI-SHEAR FLAT HEAD
	•		•			RIVET, 2-MAN OPERATION
					7160	09 FIRST FLUSH HUCK LOCK FASTENER
-			•		1510	. 10 EACH ADDITIONAL FLUSH HUCK LOCK
					4270	FASTENER
					1340	11 FIRST UNIVERSAL HUCK LOCK FASTENER 12 CACH ADDITIONAL UNIVERSAL HUCK LOCK
					1340	FASTENER FASTENER
					8020	13 FIRST FLUSH HI-LOK FASTENER
					2070	14 EACH ADDITIONAL FLUSH HI-LOK FASTENER
					5130	15 FIRST UNIVERSAL HI-LOK FASTENER
					1900	16 EACH ADDITIONAL UNIVERSAL HI-LOK
						FASTENER

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	80X	MBA	AMRHRXX	SNFFRXX	VARIABLE	FASTENERS(HIGH STRENGTH), REPLACE STARTS-MITH REACH TO TOOL OR AIR HOSE INCLUDES-ALL MOTIONS NECESSARY TO REMOVE AND INSTALL HIGH STRENGTH FASTENER AS DESCRIBED IN
						EACH CASE ENDS-WITH ASIDE TOOL OR AIR HOSE CONDITIONS-CASES OF THRU OR APPLY TO ALL
				•		SIZES HUCK STUMP TYPE SHEAR PINS.HI-SHEAR
						CASES OF AND 10 APPLY TO HUCK PULL TYPE SHEAR PINS OR SIMILAR TO 3/8 INCH DIAMETER.ALL LENGTHS AND HUCK GUN MODEL 352,200 OR
					3580	SIMILAR.FASTENER INSTALLED IN EXISTING HULE.
					1070	RIVET, L-MAN OPERATION, FIRST FASTENER OZ REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET, L-MAN OPERATION, ADDITIONAL
					3080	FASTENER O3 REMOVE AND INSTALL HI⇒SHEAR FLAT HEAD
					1000	RIVET, 1-MAN OPERATION, FIRST FASTENER 04 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION, ADDITIONAL
					5010	FASTENER OS REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET, 2-MAN OPERATION, FIRST
					1620	FASTENER O6 REMOVE AND INSTALL HI⇒SHEAR FLUSH HEAD
			•	•		RIVET, 2-MAN OPERATION, ADDITIONAL FASTENER 07 REMOVE AND INSTALL HI-SHEAR FLAT HEAD
					4510 1550	RIVET,2=MAN ()PERATION,FIRST FASTENER DB REMOVE AND INSTALL HI=SHEAR FLAT HEAD
					1410	RIVET, 2-MAN OPERATION, ADDITIONAL FASTENER O9 REMOVE AND INSTALL HUCK LOCK PIN AND
				•	900	COLLAR, FLUSH OR UNIVERSAL, FIRST FASTENER 10 REMOVE AND INSTALL HUCK LOCK PIN AND
					703	COLLAR, FLUSH OR UNIVERSAL, ADDITIONAL FASTENER
NAA	80X	MAA	ONFFTXX	SNFFSXX	VARIABLE	FASTENER (TURNLOCK), SEAT AND TIGHTEN STARTS-WITH GET TOOL
						INCLUDES—ALL MOTIONS NECESSARY TO POSITION TOOL TO SLOT IN FASTENER, ALIGN FASTENER, SEAT FASTENER, AND TURN FASTENER TO LOCK
				• .		ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO DZUS, CAMLOC, AIRLOC OR SIMILAR FASTENERS TO 3/8 INCH DIAMETER
					140	TURNED APPROXIMATELY 90 DEGREES TO LUCK CASE O1 FIRST FASTENER
			ONFFTXX	CNEELIVY	87 VARIABLE	OZ EACH ADDITIONAL FASTENER FASTENER (TURNLOCK) . UNLOCK
NAA	80X	MAA	UNFFIAA	SHELOXX	YANIAUEL	STARTS-WITH GET JOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO SLOT AND TURN FASTENER TO UNLOCK
						ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO DZUS, CAMLOC, A IRLOC,
					114	OR SIMILAR FASTENERS TO 3/8 INCH DIAMETER TURNED APPROXIMATELY 90 DEGREES TO UNLOCK CASE OI FIRST FASTENER
					61	02 EACH ADDITIONAL FASTENER
FF0	80X	MAA	KALSAXX	SNFLIXX	(VARIABLE	LOCK(WEDGE) . INSTALL STARTS-WITH GET WEDGE LOCK INCLUDES-ALL MOTIONS NECESSARY TO PUSH STEM
						DOWN, PLACE LOCK IN HOLE, GET TOOL AND PLACE ON LOCK, AND SECURE LOCK ENDS-WITH ASIDE TOOL
					335 186	CASE O1 FIRST WEDGE LOCK O2 EACH ADDITIONAL WEDGE LOCK(DDES NOT INCLUDE GET LOCK OR GET/ASIDE TOOL)

DATA Source		QUAL ITY	SOURCE	DWMSTDP ELEMENT		OPERATION/ELEMENT DESCRIPTION
FFE		MBA	KALSDF5	SNF LRO1	231	LOCK(WEDGE), REMOVE WITH PNEUMATIC TOOL STARTS-WITH GET PNEUMATIC TOOL INCLUDES-ALL MOTICNS NECESSARY TO PLACE TOOL ON WEDGE LOCK, RELEASE LOCK, ASIDE TOOL, AND REMOVE WEDGE LOCK ENOS-WITH ASIDE WEDGE LOCK CONDITIONS-DOES NOT INCLUDE TIME TO SET UP PNEUMATIC TOOL
FFO	80X	MAA	KSMHFXX	MTLFUXX	302 172	FINDER(HOLE), USE, LEAF TYPE STARTS-WITH GET HOLE FINDER INCLUDES-ALL MOTIONS NECESSARY TO SPREAD LEAVES, PLACE FINDER ON METAL, ENGAGE PEG IN HOLE, HOLD GUIDE FOR DRILLING, AND REMOVE FINDER FROM HOLE ENDS-WITH ASIDE HOLE FINDER CONDITIONS-TIME FOR DRILLING NOT INCLUDED CASE OI FIRST HOLE 02 EACH ADDITIONAL HOLE
						OF EXCH ADDITIONAL HOLE
NAA	80X	MAA	SMRHMXX	MTLHRXX	752 1139 1744	HOLE, REAM WITH HAND REAMER STARTS-WITH REAMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE REAMER TO HOLE, POSITION, REAM HOLE, AND REMOVE REAMER FROM HOLE ENDS-WITH REAMER IN HAND CONDITIONS003 INCH STOCK REMOVAL FROM HOLE ONE INCH DEEP IN ALUMINUM CASE 01 HOLE TO 3/8 INCH DIAMETER 02 HOLE 3/8-3/4 INCH DIAMETER 03 HOLE 3/4-1 1/2 INCHES DIAMETER
NAA	80X	MUA	AMRMMXX	STLACXX	VARIABLE	ALUMINUM, CUT WITH COMPOUND LEVER SNIPS, PER LINEAR INCH
				٠	•	STARTS-WITH GET SNIPS INCLUDES-ALL MOTIONS NECESSARY TO POSITION SNIPS TO CUT POINT AND CUT ONE LINEAR INCH ENDS-WITH ASIDE SNIPS CONDITIONS-WADDITIONAL INCHW CASES DO NOT INCLUDE GET AND ASIDE SNIPS.APPLICABLE TO CURVED.CIRCULAR OR STRAIGHT CUTS IN 245.755.OR SIMILAR ALUMINUM
					166	CASE 01 FIRST LINEAR INCH.ROUGH CUT.MATERIAL .001032 INCH THICKNESS
					106	02 EACH ADDITIONAL LINEAR INCH-ROUGH CUT.
					220	MATERIAL .001032 INCH THICKNESS 03 FIRST LINEAR INCH, ROUGH CUT, MATERIAL
					160	.033052 INCH THICKNESS 04 EACH ADDITIONAL LINEAR INCH, ROUGH CUT,
					284	MATERIAL .033052 INCH THICKNESS 05 FIRST LINEAR INCH, FINISH CUT, MATERIAL
					224	.001032 INCH THICKNESS 06 EACH ADDITIONAL LINEAR INCH.FINISH
	••				402	CUT.MATERIAL .001032 INCH THICKNESS 07 FIRST LINEAR INCH.FINISH CUT.MATERIAL
					342	-033052 INCH THICKNESS 08 EACH ADDITIONAL LINEAR INCH-FINISH
NAA	80X	MAA	SMRSRXX	STLLRXX	VARIABLE	CUT, WATERIAL .033052 INCH THICKNESS LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG
						STARTS-WITH GET SHIMSTOCK INCLUDES-ALL MCTICNS NECESSARY TO GET KNIFE, PULL UP CORNER OF LAMINATION, ASIDE KNIFE, GET NEEDLE NOSE PLIERS, PULL LAMINATION FROM STOCK, AND ASIDE STOCK AND LAMINATION ENOS-WITH ASIDE PLIERS
					841	CASE OI REMOVE FIRST SIX LINEAR INCHES FRJM SHIMSTOCK
					132	02 REMOVE ADDITIONAL SIX LINEAR INCHES

DATA SOURCE	OCCUP- ATION	QUAL ITY	SOURCE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
٧F	80X	MAF	2340	STLMCXX	VARIABLE	METAL, CUT WITH SNIPS, PER INCH, SHEET METAL STARTS-WITH REACH TO SNIPS INCLIDES-ALL MOTIONS NECESSARY TO MOVE SNIPS TO METAL, CUT ONE LINEAR INCH, AND ASIDE SNIPS
-			•		165 88	ENDS—WITH RELEASE OF SNIPS CASE OI FIRST INCH O2 EACH ADDITIONAL INCH
FFO	800	MAA	KSMDCXX	TEMHOXX	TABLE	HDLE.DIMPLE(COLD AND HOT) STARTS-WITH OBJECT TO BE DIMPLED IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE OBJECT TO DIE PEG.POSITION ON PEG.MOVE LEG TO OPEN AND CLOSE RAM.REMOVE OBJECT FROM DIE PEG. ENDS-WITH OBJECT DISENGAGED FROM DIE PEG. CONDITIONS-TIMES ARE PER HOLE DIMPLED(COLD)- ADD TIME FROM ELEMENT 800 BPTMHXX TO OBTAIN TIME FOR HOT DIMPLE(ONE OCCURENCE PER HOLE)
						SPACE BETWEEN HOLES
						WEIGHT OF TO 1 1 TO 3 3 TO 9 OBJECT INCH INCHES INCHES POUNDS A B C
						TO 2.5 A 67 70 75
					•	2.5 to 10 8 71 .74 79
			•	•		10 TO 20 C 77 80 85
						20 TO 30 0 82 85 90
						30 TO 40 E 88 91 96
FFE.	800	MAA	KSMIROI	SITRIOI	226	RIVET, INSPECT WITH LIGHT STARTS-WITH GET LIGHT INCLUDES-ALL MOTIONS NECESSARY TO TURN LIGHT ON, INSPECT HEAD OF RIVET, MOVE LIGHT, INSPECT TAIL OF RIVET, AND TURN LIGHT OFF ENDS-WITH ASIDE LIGHT CONDITIONS-BODY MOTIONS REQUIRED TO GET IN POSITION FOR INSPECTION NOT INCLUDED
FFE	800	MAA	KSMIRO2	SITR102	370	RIVET, INSPECT WITH LIGHT AND MIRROR STARTS-WITH GET INSPECTION LIGHT INCLUDES-ALL MOTIONS NECESSARY TO GET MIRROR, TURN LIGHT ON, PLACE MIRROR AND ADJUST ANGLE, INSPECT ONE END OF RIVET, MOVE LIGHT, INSPECT OTHER END OF RIVET, ASIDE MIRROR, AND TURN LIGHT OFF ENDS-WITH ASIDE INSPECTION LIGHT
						CONDITIONS—MIRROR REQUIRED TO INSPECT ONLY ONE END OF RIVET.BODY MOTIONS REQUIRED TO GET IN POSITION FOR INSPECTION NOT INCLUDED.
FFE	800	MAA	KALSS20	1029qLS	424	GUN(RIVET), SET UP, INITIAL STARTS-WITH GET RIVET GUN INCLUDES-ALL MOTICUS NECESSARY TO GET AIR HOSE, ATTACH TO GUN, GET RIVET SET, MOVE SPRING ASIDE, INSTALL SET IN GUN; AND REMOVE AND ASIDE SET, DISCONNECT AIR HOSE, AND ASIDE AIR HOSE ENDS-WITH ASIDE GUN
FFE	800	MAA	KALSS20	SJPG SO2	173	GUN(RIVET),SET UP,CHANGE RIVET SET STARTS-WITH RIVET GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE SPRING ASIDE,REMOVE AND ASIDE RIVET SET,GET RIVET SET,MOVE SPRING ASIDE,AND INSTALL RIVET SET ENDS-WITH RELEASE OF SET,GUN IN HAND

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	800	MAA	AMRRRXX	SNFCRXX	VARIABLE	RIVET, CUT PROTRUDING HEAD WITH RIVET GUN AND CHISEL STARTS = WITH GET RIVET GUN INCLUDES = ALL MOTIONS NECESSARY TO GET CHISEL, INSERT IN GUN. GET AND INSTALL SPRING, POSITION CHISEL TO RIVET HEAD, CUT RIVET, AND REMOVE AND ASIDE SPRING AND CHISEL ENDS = WITH ASIDE RIVET GUN CONDITIONS = "EACH ADDITIONAL" CASES INCLUDE
					580	POSITION CHISEL AND CUT RIVET ONLY CASE OI FIRST RIVET—ALUMINUM TO 3/16 INCH DIAMETER-OR STEEL OR MONEL TO 1/8 INCH DIAMETER
					39	02 EACH ADDITIONAL RIVET-ALUMINUM TJ 3/16 INCH DIAMETER OR STEEL OR MONEL TO 1/8 INCH DIAMETER
_					613	03 FIRST MONEL OR STEEL RIVET 5/32-3/16 INCH DIAMETER, OR SCREW OR BOLT TO NO.10
					69	34 EACH ADDITIONAL MONEL OR STEEL RIVET 5/32-3/16 INCH DIAMETER, UR SCREW OR BOLT TO NO.10
NAA	800	MAA	AMRRRXX	SNFORXX	VARIABLE,	RIVET, DRIVE OUT WITH HAMMER AND PIN PUNCH, 2— MAN OPERATION STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO GET PIN PUNCH, POSITION TO RIVET SHANK, GET BACKUP BAR, PUSITION TO SIDE OF RIVET, AND DRIVE RIVET OUT WITH THREE HAMMER BLOWS ENDS-WITH ASIDE TOOLS COMDITIONS-TIME VALUES SHOWN ARE TOTALS FOR
		. ,	. ·	••	528 248	TWO OPERATORS.APPLICABLE TO DRIVING RIVETS OUT IN ACCESSIBLE AREAS WHERE USE OF A BACKUP BAR IS NECESSARY. CASE OI FIRST RIVET OZ FACH ADDITIONAL RIVET
NAA	800	MUA	AMRBRXX	SNFFRXX	10400 9640	FASTENER (8LIND), REMOVE, DEUTSCH DRIVE PIN RIVET STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO GET CENTER PUNCH, PUNCH RIVET STEM FOR DRILLING, SSIDE HAMMER AND PUNCH, GET DRILL MOTOR, GET AND INSTALL DRILL, DRILL STEM (PARTIAL), ASIDE DRILL, GET TAP HANDLE, GET AND INSTALL TAP IN HANDLE, TAP STEM, REMOVE TAP FROM HANDLE, ASIDE TAP AND HANDLE, GET DRILL, DRILL PIN, REMOVE DRILL FROM CHUCK, ASIDE DRILL AND DRILL MOTOR, GET ALLEN HEAD SCREW WITH HEX NUT INSTALLED, TURN HEX NUT UP SCREW, GET SPACER, POSITION ON SCREW, INSTALL SCREW IN TAPPED PIN, HOLD SCREW WITH ALLEN WRENCH, TIGHTEN HEX NUT AGAINST SPACER TO REMOVE PIN, PLACE PIN IN VISE, REMOVE SCREW FROM PIN, AND ASIDE TOOLS CASE OI FIRST FASTENER OZ EACH ADDITIONAL FASTENER (DOES NOT INCLUDE SET UP OF DRILL OR TAP)
NAA ·	800	MAA	AMRBNXX		VARIABLE	RIVET(DEUTSCH DRIVE PIN), INSTALL, ALL SIZES STARTS-WITH GET RIVET INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, GET HAMMER, GET HOLLOW PUNCH, POSITION PUNCH OVER RIVET STEM, DRIVE RIVET HEAD FLUSH WITH SURFACE, ASIDE HAMMER AND PUNCH, GET RIVET GUN, GET AND INSTALL FLUSH RIVET SET, GET AND INSTALL SPRING, POSITION GUN TO DRIVE PIN, DRIVE PIN WITH RIVET GUN, REMOVE SPRING, REMOVE SET, AND ASIDE SPRING AND SET ENOS-WITH ASIDE RIVET GUN
				•	860 210	CASE O1 FIRST RIVET 02 EACH ADDITIONAL RIVET IN A SERIES(DOES NOT INCLUDE GET, SET UP, OR ASIDE TOOLS)

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	800	AAM	KALSDXX	SNFRDXX	VARIABLE	RIVET, DRILL AND REMOVE, COUNTERSUNK OR UNIVERSAL HEAD
						STARTS-WITH GET DRILL, DRILL BIT PREVIOUSLY INSTALLED
						INCLINES - ALL MOTTONS NECESSARY TO PLACE DRILL
				•		TO RIVET HEAD, DRILL RIVET, ASIDE DRILL, GET PUNCH, GET HAMMER, PLACE PUNCH TO RIVET SHANK,
				•		AND DRIVE RIVET FROM HOLE
					556	ENDS-WITH ASIDE TOOLS CASE OI FIRST ALUMINUM RIVET TO 3/16 INCH
					351	DIAMETER OZ EACH ADDITIONAL ALUMINUM RIVET TO 3/16
						(NCH DIAMETER(NO GET/ASIDE TOOLS) OB FIRST ALUMINUM RIVET 5/16 INCH
					756	DIAMETER OR LARGER(TIME TO DRILL PILOT HOLE ALLOWED, BUT NO TIME TO
					4	CHANGE DRILL BIT) 04 EACH ADDITIONAL ALUMINUM RIVET 5/16
					471	INCH DIAMETER OR LARGER(NO GET/ASIDE TOOLS)
					1112	05 FIRST STEEL RIVET 3/32-3/16 IN DIAMETER
					907	O6 EACH ADDITIONAL STEEL RIVET 3/32-3/16 INCH DIAMETER(NO GET/ASIDE TOOLS)
FFD	800	MAA	KAL SAXX	SNERIXX	VARIABLE	RIVET, INSTALL
****	300					STARTS-WITH GET RIVET GUN AND RIVET(S) [NCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET
						IN HOLE, PLACE GUN TO RIVET, AND DRIVE RIVET
•						ENDS-WITH ASIDE GUN CONDITIONS-TIME TO SET UP RIVET GUN NOT
						INCLUDED CASE O1 FIRST ALUMINUM RIVET TO 1/4 INCH
			,	•	219	DIAMETER(ONE OPERATOR-NO BUCKING BAR) 02 EACH ADDITIONAL ALUMINUM RIVET TO 1/4
		•	•		144	INCH DIAMETER(ONE OPERATOR)
					1026	03 FIRST ALUMINUM RIVET 5/16 INCH OR LARGER DIAMETER(TIME SHOWN IS FOR TWO
					876	OPERATORS USE OF BUCKING BAR REQUIRED) 04 EACH ADDITIONAL ALUMINUM RIVET 5/16
					010	INCH OR LARGER DIAMETER(TWO OPERATORS.
					. 446	BUCKING BAR REQUIRED) 05 FIRST STEEL RIVET TO 3/16 INCH
					. 110	DIAMETER(TIME SHOWN IS FOR TWO OPERATORS.USE OF BUCKING BAR REQUIRED)
					296	06 EACH ADDITIONAL STEEL RIVET TO 3/16
						INCH DIAMETER(TWO OPERATORS.USE BUCKING BAR)
FFD	800	MAA	KAL SAC 1	SNFRIO	7 683	RIVET.INSTALL,COLLARED FASTENER,3/16-1/4 INCH Diameter,first rivet
						CTADISHUITH GET FASTENER(S)
						INCLUDES-ALL MOTIONS NECESSARY TO PLACE PIN IN HOLE, GET HAMMER, SEAT PIN, ASIDE HAMMER, GET
						COLLAD DIACE ON PINGET BUCKING BARIPLACE TU
				٠.		RIVET.GET AND POSITION GUN. SECURE COLLAR ON PIN. AND ASIDE GUN
						ENDS-WITH ASIDE BUCKING BAR CONDITIONS-NJ TIME ALLOWED FOR SETUP OF GUN
						THE THE PARTY OF T
FFD	800	AAM	KAL SAC 2	SNFRIC	8 335	DIAMETER.ADDITIONAL RIVET
						STARTS-WITH FASTENER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE PIN IN
			•			unic ceat oin with HAMMER.PLACE COLLAR UN PIN+
						- PLACE BUCKING BAR, TO PIN, POSITION GUN TO PIN, AND SECURE COLLAR
						ENDS-WITH GUN AND BUCKING BAR IN HAND CONDITIONS-NO TIME INCLUDED TO GET/ASIDE
						FASTENER AND TOOLS

						·
DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFO	800	MAA	KSMRIH1	SNFRI 09	703	RIVET(HI-SHEAR), INSTALL, FIRST STARTS-WITH GET RIVET INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, GET HAMMER, SEAT RIVET, ASIDE HAMMER, PLACE COLLAR ON RIVET, GET BUCKING BAR.
	•					POSITION TO RIVET, GET RIVET GUN. POSITION ON RIVET, ORIVE RIVET, AND ASIDE GUN ENDS-WITH ASIDE BUCKING BAR CONDITIONS-APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER.NO TIME ALLOWED FOR SETUP OF RIVET GUN
FFD	800	MAA	KSMR [H2	SNFR110	466	RIVET(HI-SHEAR), INSTALL, ADDITIONAL STARTS-WITH REGRASP OF RIVET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, STRIKE RIVET WITH HAMMER TO SEAT, REGRASP COLLAR, PLACE ON RIVET, POSITION GUN TO RIVET, POSITION BUCKING BAR AND DRIVE RIVET ENDS-WITH RIVET INSTALLED CONDITIONS-DOES NOT INCLUDE GET AND/OR ASIDE
			,			RIVET, COLLAR, HAMMER, GUN, AND BUCKING BAR. APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER
FFD ,	800	MAA	KALSAB1	SNFRI11	525	RIVET.INSTALL, BLIND, PULLED, ALL TYPES, FIRST RIVET STARTS-WITH GET RIVET GUN AND RIVETS(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN GUN, MOVE RIVET TO HOLE, DRIVE RIVET, ASIDE GUN, GET CUTTERS, CUT STEM OF RIVET, ASIDE, CUTTERS, GET FILE, AND FILE BURR OFF RIVET STEM ENDS-WITH ASIDE FILE CONDITIONS-NO TIME ALLOWED FOR SETUP OF RIVET GUN
FFD	800	MAA	KALSAB2	SNFRI12	445	RIVET, INSTALL, BLIND, PULLED, ALL TYPES, EACH ADDITIONAL RIVET STARTS—WITH RIVET AND RIVET GUN IN HAND INCLUDES—ALL MOTIONS NECESSARY TO PLACE RIVET IN GUN, PLACE RIVET IN HOLE, ORIVE RIVET, ASIDE GUN, GET CUTTERS, CUT STEM OF RIVET, ASIDE CUTTERS, GET FILE AND REMOVE BURR ENDS—WITH ASIDE FILE CONDITIONS—NO TIME INCLUDED TO GET/ASIDE FASTENER AND TOOLS
FFD	800	MAA	KAL SD XX	SNFRKXX	VARIABLE	RIVET.KNOCK OUT.COLLARED FASTENER.ALUMINUM STARTS-WITH GET GUN WITH KNOCKER ATTACHED INCLUDES-ALL MOTIONS NECESSARY TO PLACE KNOCKER TO COLLAR.REMOVE COLLAR.ASIDE GUN.GET HAMMER.DRIVE FASTENER FLUSH WITH SURFACE.GET PUNCH.AND DRIVE FASTENER FROM HOLE ENOS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO HI-SHEAR RIVETS. HI-LOCK FASTENERS.AND STUMP BOLTS
					593 348	CASE OI FIRST COLLARED FASTENER O2 EACH ADDITIONAL COLLARED FASTENER(DOES NOT INCLUDE GET/ASIDE TOOLS)

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DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	800	MUA	ONFROXX	SNFRRXX	VARIABLE	RIVET, REMOVE, SOLID, DRIVEN STARTS-WITH GET TOOL(S) INCLUDES-ALL MOTIONS NECESSARY TO SET UP TOOL(S), CUT RIVET HEAD OR TAIL, ASIDE CUTTING
					•	TOOL, GET TOOLS, AND PUNCH OUT RIVET ENDS-WITH ASIDE TOOL(S) CONDITIONS-APPLICABLE TO ALUMINUM OR MONEL
					548	RIVET 1/8-3/16 INCH DIAMETER CASE OF FIRST RIVET.CUT WITH HAMMER AND CHISEL AND DRIVE RIVET OUT WITH HAMMER AND
					254	PUNCH O2 EACH ADDITIONAL RIVET USING HAMMER.
					9 99	CHISEL AND PUNCH O3 FIRST RIVET, CUT WITH POWER CHISEL AND DRIVE RIVET OUT WITH HAMMER AND PUNCH
•					195	04 EACH ADDITIONAL RIVET USING POWER CHISEL HAMMER AND PUNCH
					990	OF FIRST RIVET, CUT WITH POWER CHISEL AND DRIVE RIVET OUT WITH POWER DRIFT
		•		-	217	06 EACH ADDITIONAL RIVET USING POWER CHISEL AND POWER DRIFT
FFD	800	TAA	KSMTPO1	ВРТМНХХ	VARIABLE	STARIS-WITH MALE AND FEMALE DIES IN CONTROL
						INCLUDES—ALL THE PROCESS TIME NECESSARY TO HEAT METAL ENOUGH TO DIMPLE WITHOUT CRACKING EDGES OF DIMPLE ENDS—WHEN HEAT IS TURNED OFF
•					29	CONDITIONS-MAGNESIUM AND TITANIUM USED CASE OI METAL .031 INCH THICK
			•		32 37	02 METAL .050 INCH THICK 03 METAL .064 INCH THICK 04 METAL .100 INCH THICK
	•				42 35	05 METAL ANY THICKNESS=.031 TO .100 INCH(AVERAGE OF TIMES)
FFD	800	TAA	KSMTPRI	BP TR SO 1	257	RIVET.SET WITH PNEUMATIC GUN.PROCESS TIME ONLY STARTS-WITH ACTUATION OF RIVET GUN SWITCH INCLUDES-ALL THE TIME NECESSARY TO SET UNE RIVET
						ENDS-WITH RELEASE OF SWITCH CONDITIONS-APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER
FF0	800	MAA	KSMJPD1	SSUDS01	3359	DIMPLE MACHINE, SET UP(COLD) STARTS-WITH REACH TO GET ALLEN WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET ALLEN WRENCH AND MALE DIE, LOOSEN AND RUN DUT OIE SET SCREW, REMOVE DIE FROM MACHINE AND ASIDE DIE TO RACK, GET FEMALE DIE, LOOSEN AND RUN OUT SET SCREW, REMOVE AND ASIDE DIE TO
				. •		RACK, GET PROPER DIE FROM RACK, PLACE IN MACHINE AND RUN IN AND TIGHTEN SET SCREW(MALE AND FEMALE DIE), ACTUATE RAM CLOSED, CHECK DIES FOR GAP, ACTUATE RAM OPEN, GET WRENCH AND LUGSEN PAM AD HIST MIT, ACTUATE RAM CLOSED, ADJUST GAP,
						OPEN DIMPLING RAM, GET AND PLACE SCRAP METAL OVER DIE, CLOSE AND OPEN DIMPLING RAM, REMOVE AND ASIDE SCRAP, GET RIVET AND PLACE IN DIMPLE HOLE, CHECK FOR PROPER SETTING, ASIDE RIVET, MAKE FINE ADJUSTMENTS ON DIE GAP, ASIDE WRENCH, GET WRENCH, RUN DOWN AND TIGHTEN JAM NUT, ASIDE
						WRENCH ENDS-WITH ASIDE WRENCH CONDITIONS-TIME IS ALLOWED FOR CHANGING DIES TO HOLE SIZE AND ADJUSTING FOR METAL THICKNESS

DATA SOUPCE		QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
FFO	300	MAA	KSMJPD2	SSUGA 01	1121	GAP(DIE), ADJUST(DIMPLING MACHINE—COLD) STARTS—WITH REACH TO GET WRENCH INCLUDES—ALL THE MOTIONS NECESSARY TO GET WRENCH AND LOOSEN DIE ADJUSTMENT JAM NUT, CLOSE DIMPLING RAM, ADJUST TO PROPER JAP, OPEN DIMPLING RAM, GET METAL SCRAP AND PLACE OVER MALE DIE, CLOSE RAM, OPEN RAM, REMOVE SCRAP FROM DIE AND ASIDE, GET RIVET AND PLACE IN RIVET HOLE, CHECK FOR PROPER SETTING, MAKE FINE ADJUSTMENTS TO DIE GAP, ASIDE RIVET AND WRENCH, GET WRENCH AND RUN DOWN AND TIGHTEN JAM NUT ENDS—WITH ASIDE WRENCH CONDITIONS—THIS ELEMENT COVERS DIE GAP SETTING
FFE	800	мад	KSMJPD3	SSUMSOI	4624	MACHINE(HOT DIMPLE), SET UP STARTS-WITH REACH TO GET WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET ALLEN WRENCH, LOOSEN HEATER RETAINING SCREW, REMOVE HEATER FROM DIE, SET UP DIMPLE MACHINE, GET AND PLACE HEATER ON DIE, RUN IN AND TIGHTEN CONTROL, ASIDE WRENCH, TURN HEATER ON AND JEF ENDS-WITH TURN HEATER OFF CONDITIONS-ELEMENT INCLUDES TIME TO CHANGE AND ADJUST DIE SET, REMOVE AND INSTALL HEATER OUR- ING PROCESS-US ED WHEN HOLE SIZE IN MACHINE IS NOT CORRECT FOR JOB-SEE ELEMENT 800 SSUDSO1 FOR SET UP DIMPLE MACHINE
NAA .	800	MAA	OTLOC XX	STLDFXX	804 201 1356 308	DIMPLE(COLD), FORM WITH HAND DIMPLER STARTS—WITH REACH TO VISE HANDLE INCLIDES—ALL MOTIONS NECESSARY TO OPEN VISE, GET MALE DIE, PLACE IN VISE, CLOSE VISE, GET PART, POSITION PART TO MALE DIE, GET FEMALE DIE, POSITION DIE TO PART, GET HAMMER, STRIKE FEMALE DIE FOUR BLOWS WITH HAMMER, PALM HAMMER AND DIE, AS IDE PART, AS IDE DIE AND HAMMER, JPEN VISE, REMCVE AND AS IDE MALE DIE, AND CLOSE VISE ENDS—WITH RELEASE OF VISE HANDLE CONDITIONS—APPLICABLE TO USE OF 3/32*-1/4* DIMPLE IN .016*064* STAINLESS STEEL, .025*051* 24S-0-T3-T4, .025*064* 52S, JR .J25*064* 61S-0-T4 CASE 01 FIRST OR SINGLE DIMPLE IN PART TO ONE SQUARE FOOT AREA(ONE DPERATOR) 02 EACH ADDITIONAL DIMPLE IN PART ONE TO NIME SQUARE FEET (TIME SHOWN IS FOR TWO OPERATORS) 04 EACH ADDITIONAL DIMPLE IN PART ONE TO NIME SQUARE FEET (TIME SHOWN IS FOR TWO OPERATORS)
NF .	804	MAF :	3337/38	МОНРРХХ	91	PIECES, POSITION TO ASSEMBLE PITTSBURGH LOCK SEAM STARTS-WITH SIMO REACH TO PIECES INCLUDES-ALL MOTIONS NECESSARY TO BRING PIECES TOGETHER, ALIGN, CHECK VISUALLY, AND STRIKE WITH HAND TO ASSEMBLE SEAM ENDS-WITH HAND IN CONTACT WITH SEAM CASE O1 SMALL PIECES, TOTAL WEIGHT TO 10 POUNDS ENW
					102	02 LARGE PIECES, TOTAL WEIGHT 10-60 POUNDS ENW

DATA SOURCE	OCCUP- ATION	QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRDEXX	SFACHXX	VARIABLE	HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, RECTANGULAR ACCESS HOLE STARTS—WITH GET MEASURING DEVICE INCLUDES—ALL MOTIONS NECESSARY TO GET MARKING
						INSTRUMENT, LAY OUT HOLE, MEASURE AND MARK FOR RADIUS PUNCH, CENTER PUNCH FOR RADIUS, SET UP
		•				CUT HOLE WITH PEXTO SHEAR, PLACE MATERIAL IN VISE, AND DEBUFR WITH FILE AND EMERY CLOTH ENDS-WITH ACCESS HOLE CUT CONDITIONS-APPLICABLE TO CUTTING ALUMINUM
					14330 22210 28580 34110	MATERIAL SUCH AS DOUBLER OR FILLER CASE O1 CUT HOLE, PERIMETER TO 16 INCHES O2 CUT HOLE, PERIMETER 16-28 INCHES O3 CUT HOLE, PERIMETER 28-40 INCHES O4 CUT HOLE, PERIMETER 40-52 INCHES
NAA	807	MUA	AMROFXX	SFADFXX	VARIABLE	DOUBLERIOR FILLER), FABRICATE, FLAT CIRCULAR STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING
						INSTRUMENT; MEASURE MATERIAL FOR ROUGH COTT POSITION MATERIAL TO SHEAR, TURN AND WALK ONE PAGE TO SWITCH, TURN SWITCH ON, SHEAR MATERIAL ATTROCUTES AND TURN MACHINE OFF, OR CLAMP
					•	MATERIAL AND SHEAR ON MANUAL SHEAR(1740 CO13): WALK SEMINO MACHINE; PICK UP MATERIAL; LAY OUT
				•		SHEAR.CUT CIRCUMFERENCE OF CIRCULAR DOUBLER, ASIDE SCRAP.OR SET UP AND CUT CIRCULAR SHAPE ON BANDSAW:DRESS CIRCUMFERENCE ON SANDER:AND FINAL ORESS WITH HAND FILE AND EMERY CLOTH.
						AS REQUIRED-SPLIT DOUBLER WITH SHEAKS JR HANCSAW AND DRESS SPLIT SURFACES. ENDS-WITH DOUBLER FABRICATED
						CONDITIONS=(1) MATERIAL IS ALUMINUM TO .004 INCH THICKNESS. (2) WALKING TO AND FRUM MACHINES NOT INCLUDED EXCEPT AS INDICATED. (3) ROUGH CUT COMPUTED AT 90 PER CENT USE OF
						POWER SHEAR AND 10 PER CENT USE OF MANUAL SHEAR. (4) FINAL CUT OF CIRCUMFERENCE COMPUTED AT 90 PER CENT USE OF BEVERLY SHEAR AND 10 PER
	•				9640	CENT USE OF BANDSAM. CASE O1 FABRICATE CIRCULAR DOUBLER TJ + INCHES DIAMETER O2 FABRICATE CIRCULAR DOUBLER 4-7 INCHES
					13830	DIAMETER 03 FABRICATE CIRCULAR DOUBLER 7-13 INCHES
					22460	DIAMETER 04 FABRICATE CIRCULAR DOUBLER 10-13 INCHES DIAMETER
			•		26860	05 FABRICATE CIRCULAR DOUBLER 13-16 INCHES DIAMETER 06 FABRICATE AND SPLIT CIRCULAR DOUBLER
					14140	TO 4 INCHES DIAMETER O7 FABRICATE AND SPLIT CIRCULAR DOUBLER 4-7 INCHES DIAMETER
					25670	O8 FABRICATE AND SPLIT CIRCULAR DOUBLER 7-10 INCHES DIAMETER
				**	30000 35360	10-13 INCHES DIAMETER 10 FABRICATE AND SPLIT CIRCULAR DOUBLER
					5550	13-16 INCHES DIAMETER

DATA Source	CCCUP- AT ION	QUALITY	SOURCE	DWMSTDP ELEMENT		OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRDFXX	SFAFFXX	VARIABLE	FILLERIOR DOUBLER), FABRICATE, FLAT RECTANGULAR, TO .064 INCH THICK STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT; LAY OUT RECTANGULAR SHAPE ON MATERIAL; TURN AND WALK TO SWITCH, TURN SWITCH ON, SHEAR MATERIAL (THO CUTS), AND TURN MACHINE
						OFF.OR CLAMP MATERIAL AND CUT ON MANUAL SHEAR (TWO CUTS); WALK BEHIND MACHINE; PICK UP MATERIAL; DEBURR ÈDGES AND RADIUS CORNERS WITH POWER SANDER; AND FINAL DRESS WITH FILE AND EMERY CLOTH. AS REQUIRED=SPLIT FILLER ON SHEAR OR BANDSAW. DEBURR WITH POWER SANDER, AND FINAL DRESS WITH FILE AND EMERY CLOTH.
				•		ENDS-WITH FILLER FABRICATED CONDITIONS-(1) TIME FOR WALKING TO AND FROM MACHINES INCLUDED ONLY AS INDICATED. (2) USE OF SHEARS COMPUTED AT 90 PER CENT FOR POWER AND 10 PER CENT FOR MANUAL SHEARS. (3) SPLITTING FILLERS IS COMPUTED AT 80 PER CENT WITH BANDSAW AND 20 PER CENT WITH SHEARS.
					8520	(4) FIVE PER CENT OF THE SPLIT FILLERS ARE DEBURRED BY POWER SANDER. CASE OL FABRICATE RECTANGULAR FILLER WITH PERIMETER TO 16 INCHES
				:	10580	O2 FABRICATE RECTANGULAR FILLER WITH PERIMETER 16-28 INCHES O3 FABRICATE RECTANGULAR FILLER WITH PERIMETER 28-40 INCHES
					15440 17500	04 FABRICATE RECTANGULAR FILLER WITH PERIMETER 40-52 INCHES 05 FABRICATE RECTANGULAR FILLER WITH
					19550	PERIMETER 52-64 INCHES 06 FABRICATE RECTANGULAR FILLER WITH
					21610	PERIMETER 64-76 INCHES 07 FABRICATE RECTANGULAR FILLER WITH PERIMETER 76-88 INCHES
					23670 13090	OS FABRICATE RECTANGULAR FILLER WITH - PERIMETER 88-100 INCHES
					16240	09 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER TO 16 INCHES 10 FABRICATE AND SPLIT RECTANGULAR FILLER
					20000	WITH PERIMETER 16-28 INCHES 11 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 28-40 INCHES
					23360	12 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 40-52 INCHES
•					26520 29660	13 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 52-64 INCHES 14 FABRICATE AND SPLIT RECTANGULAR FILLER
					32010	WITH PERIMETER 64-76 INCHES 15 FABRICATE AND SPLIT RECTANGULAR FILLER
					35960	WITH PERIMETER 76-88 INCHES 16 FAGRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 88-100 INCHES
NA A	807	MUA 1	AMROFXX	SFAHCXX	VARTABLE	HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE
						STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT, LAY OUT HOLE, CENTER PUNCH, SET UP AND PUNCH HOLE WITH TURRET PUNCH, CUT HOLE WITH COMPOUND LEVER SNIPS, GET POWER TOOL, INSTALL ROTARY FILE, FINISH HOLE, AS IDE TOOL, AND DRESS HOLE WITH FILE AND EMERY CLOTH ENDS-WITH HOLE CUT
					21900 32140 40450 46900	CASE 01 CUT HOLE,2-5 INCHES DIAMETER 02 CUT HOLE,5-8 INCHES DIAMETER 03 CUT HOLE,8-11 INCHES DIAMETER 04 CUT HOLE,11-14 INCHES DIAMETER

DATA SOURCE	OCCUP- AT ION	QUALITY	SOURCE CODE	OWMSTOP SLEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KSMJPFI	MJPTP01	922	TOOLS, PREPARE FOR JO-BOLT INSTALLATION STARTS-WITH TURN TO TOOL CARRIER OR TOULBOX INCLUDES-ALL MOTIONS NECESSARY TO GET TRAY FROM CARRIER; GET HOOK GAUGE, GUN, AND JO-BOLT SET FROM CARRIER AND PLACE IN TRAY; GET TRAY; TURN TO WORK AREA; PLACE TRAY IN WORK AREA; GET
		-				GUN:GET SET:INSTALL SET ON GUN:CONNECT AND DISCONNECT AIR HOSE:REMOVE SET FROM GUN:PLACE GUN AND SET IN TRAY:GET TRAY:TURN TO CARRIER OR TOOLBOX:AND PLACE TOOLS AND TRAY IN CARRIER ENDS-WITH RELEASE OF TRAY
0414	807	MBA	AMR SJOI	SJPC I O I	1330	CARTRIDGE(SEALANT). INSTALL IN AND REMOVE FROM
DNA	00 f					GUN STARTS-WITH GET GUN INCLUDES-ALL MOTIONS NECESSARY TO REMOVE BACK OF GUN.GET CARTRIDGE.INSERT IN GUN.REPLACE BACK OF GUN.INSTALL AND CUT TIP, REMOVE BACK OF GUN.REMOVE AND ASIDE CARTRIDGE.CLEAN GUN.AND REPLACE BACK OF GUN
						ENDS-WITH ASIDE GUN CONDITIONS-APPLICABLE TO AIR OPERATED SEMCO GUN AND TWO OUNCE CARTRIDGE
MAA	807	MAA	AMRGRXX	MNFGRXX	VARIABLE	GROMMET (AND STUD), REMOVE, DZUS FASTENER, MANUAL MOTIONS ONLY STARTS-WITH GET PORTABLE DRILL
			•	•	•	INCLUDES—ALL MOTIONS NECESSARY TO GET CUTTER, INSTALL IN DRILL CHUCK, POSITION CUTTER TO GROMMET, ASIDE CUTTER, GET BAR, POSITION UNDER STUD HEAD, GET HAMMER, STRIKE STUD, ASIDE BAR AND
						STUD.GET CHISEL.POSITION TO GROWNET, DRIVE GROWNET OUT WITH HAMMER AND CHISEL.ASIDE HAMMER AND CHISEL.GET ROTARY FILE.INSTALL IN
			•		•	ORILL CHUCK, AND REMOVE ROTARY FILE ENDS-WITH ASIDE DRILL AND ROTARY FILE CONDITIONS-PROCESS TIME FOR CUTTING AND FILING
٠					2155 712	NOT INCLUDED CASE 01 FIRST GROMMET AND STUD 02 EACH ADDITIONAL GROMMET AND STUD

DATA Source		QUALITY	SOURCE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	ONFSDXX	SNFCCXX	VARTABLE	COLLAR, CUT FROM DRAW TYPE SHEAR PIN STARTS-WITH GET TOOL(S) TO CUT COLLAR INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO COLLAR, CUT COLLAR, AND ASIDE TOOL(S). CASES O1-08 ALSO INCLUDE DRIVE PIN OUT WITH HAMMER AND DRIFT. ENDS-WITH RELEASE OF TOOLS CONDITIONS-ADDITIONAL PIECES DO NOT INCLUDE GET AND ASIDE TOOLS.APPLICABLE TO HUCK PULL TYPE SHEAR PIN OR SIMILAR TO 3/8 INCH DIAMETER, ANY LENGTH
					616	CASE OF CUT FIRST COLLAR WITH HUCK GUN MODEL
					358	352,200, OR SIMILAR AND DRIVE OUT PIN OZ CUT EACH ADDITIONAL COLLAR WITH HUCK
					621	GUN AND DRIVE OUT PIN 03 CUT FIRST COLLAR WITH BOLT CUTTER AND DRIVE OUT PIN(BOLT CUTTER EQUIPPED WITH JAWS SPECIALLY DESIGNED TO CUT
					317	HUCK COLLAR) 04 CUT EACH ADDITIONAL COLLAR WITH BOLT
					1081	CUTTER AND DRIVE DUT PIN 05 CUT FIRST COLLAR WITH RIVET GUN AND CHISEL, DRIVE DUT PIN(INCLUDES
					294	ATTACH AND REMOVE CHISEL) O6 CUT EACH ADDITIONAL COLLAR WITH RIVET
					935	GUN AND CHISEL, AND CRIVE OUT PIN O7 CUT FIRST COLLAR WITH HAMMER AND
		•			611	CHISEL, AND DRIVE PIN OUT OB CUT EACH ADDITIONAL COLLAR WITH HAMMER
					186	AND CHISEL.AND DRIVE PIN OUT OP CUT FIRST COLLAR WITH HUCK GUN MODEL
					125	352,200 OR SIMILAR 10 CUT EACH ADDITIONAL COLLAR WITH HUCK
					171	GUN 11 CUT FIRST COLLAR WITH BOLT CUTTER WITH JAWS SPECIALLY DESIGNED FOR REMOVAL OF
					84	HUCK COLLARS 12 CUT EACH ADDITIONAL COLLAR WITH BOLT
•			•		641	CUTTER 13 CUT FIRST COLLAR WITH RIVET GUN AND
						CHISEL (INCLUDES ATTACH AND REMUVE CHISEL BLADE)
					45	14 CUT EACH ADDITIONAL COLLAR WITH RIVET GUN AND CHISEL
					680	15 CUT FIRST COLLAR WITH HAMMER AND CHISEL
					472	16 CUT EACH ADDITIONAL COLLAR WITH HAMMER AND CHISEL
NAA	807	HAA	AMRAN17	SNFFI01	497	FASTENER (ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT GNLY, ALL TYPES, FIRST PIECE STARTS-WITH GET NUT PLATE ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET NUT PLATE ASSEMBLY, POSITION FOR NUT REMOVAL, GET OUCK BILL PLIERS, BEND TWO TABS WITH PLIERS, ASIDE PLATE(NUT DROPS TO BENCH), GET NUT, POSITION TO EXISITNG ATTACHED PLATE, HOLD FIRMLY IN PLACE, BEND TABS AROUND PLATE, ASIDE PLIERS, CHECK ALIGNMENT AND FREENESS OF NUT ENDS-WITH RELEASE NUT
NAA	807	MAA	AMRAN18	SNFFI02	454	FASTENER (ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, ADDITIONAL PIECE STARTS—WITH GET NUT PLATE ASSEMBLY INCLUDES—ALL MOTIONS NECESSARY TO GET NUT PLATE ASSEMBLY, POSITION FOR NUT REMOVAL, USE DUCK BILL PLIERS TO BEND TWO TABS, ASIDE PLATE(NUT DROPS TO BENCH), GET NUT, POSITION TO EXISTING ATTACHED PLATE, HOLD FIRMLY IN PLACE AND BEND TWO TABS OVER PLATE, ASIDE PLIERS, CHECK ALIGNMENT AND FREENESS OF NUT ENDS—WITH RELEASE NUT

OPERATION/ ELEMENT DESCRIPT ION ŤMU OCCUP- QUALITY SOURCE DWMSTDP CATA VALUE ELEMENT CODE SCURCE ATION FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLJC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, SNFF103 3610 AMR 4N34 MUA 807 MAA FIRST PIECE STARTS-WITH GET CLECO AND CLECO PLIERS STARTS-WITH GET CLECU AND CLECU PETERS
INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND
REMCVE CLECOIPLIER OR WING TYPE), HOLD FASTENER
IN PLACE, INSTALL AND BUCK RIVET(RIVET GUN OR
PORTABLE PNEUMATIC "C" SQUEEZE), MICROSHAVE RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISAL IGNMENT, PLUG IN AND JUT AIR HOSE (DUE TO REAM). INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET
ENDS-MITH ASIDE MICROSHAVER
CONDITIONS-PLUG IN AND OUT FOR REAM, REAM HOLE
FOR ALIGNMENT AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED TO PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER IS PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLUC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, ADDITIONAL PIECE AMRAN35 SNFFI04 1840 ΝΔΔ 307 MUA STARTS-WITH GET CLECO AND CLECO PLIERS
INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND
REMCVE CLECOIPLIER OR WING TYPE), HOLD FASTENER IN PLACE, INSTALL AND BUCK RIVET (RIVET GUN OR PORTABLE PNEUMATIC "C" SQUEEZE), MICRUSHAVE RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE (DUE TO REAM), INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAVER CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM,
REAM HOLE FOR ALIGNMENT AND PLUG IN AND OUT
AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10
PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER IS PEAHLER MODEL 33A OR MICRO MILLER MODEL 3RM FASTENER (ANCHOPED), INSTALL CAMLOC OR AIRLUC RECEPTACLE, OR DZUS SPRING, 2-MAN OPERATION, AMRAN36 SNFF105 5770 807 MUA FIRST PIECE STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE). HOLD FASTENER IN PLACE, INSTALL AND BUCK RIVET, HIGHWAYE
RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM
HOLE FOR MISAL IGNMENT, PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM, INSTALL AND BUCK SECOND RIVET. MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAVER
CONDITIONS-PLUG IN AND OUT AIR HOSE
FOR REAM.REAM HOLE, AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED TO PER-CENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRAN37	SNFFIO6	3250	FASTENER (ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, 2=MAN OPERATION, ADDITIONAL STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL THE MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE), HOLD FASTENER IN PLACE, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE TO GUN, INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAVER CONDITIONS-PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED TO PERCENT OF THE TIME. MICROSHAVER WODEL PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM
NAA	807	MUA	CMR4NO1	SNFF107	18850	FASTENER (ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE—NUT LENGTH STARTS—WITH GET LENGTH OF CHANNEL INCLUDES—ALL MOTIONS NECESSARY TO CUT CHANNEL TO LENGTH WITH COMPOUND LEVER SNIPS, DEBURR CHANNEL END WITH FILE, MEASURE AND MARK HOLE LOCATIONS, CENTER PUNCH HOLE LOCATIONS, SET UP PORTABLE DRILL, DRILL HOLES, DEBURR HOLES WITH HAND HELD DRILL BIT, INSTALL TEMPORARY SCREWS WITH SCREWDRIVER, SET UP RIVET GUN, INSTALL BLIND RIVETS AND REMOVE TEMPORARY SCREWS ENDS—WITH ASIDE SCREWS AND SCREWORIVER
NAA	807	MUA	CMRANXX	SNFFIO8	4530	FASTENER (ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH STARTS-WITH MEASURE FOR ADDITIONAL HOLES INCLUDES-ALL MOTIONS NECESSARY TO MEASURE AND MARK FOR ADDITIONAL HOLES, CENTER PUNCH, OR ILL AND DEBURR ADDITIONAL HOLES, SECURE WITH SCREW, INSTALL BLIND RIVET AND REMOVE SCREW ENDS-WITH ASIDE SCREW
NAA	807	MUA	CMRANO3		14970	FASTEMER (ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH STARTS-WITH GET LENGTH OF CHANNEL INCLUDES-ALL MOTIONS NECESSARY TO CUT CHANNEL TO LENGTH WITH COMPOUND LEVER SHIPS, JEBURR CHANNEL END WITH FILE, INSTALL TWO TEMPORARY SCREWS WITH SCREWDRIVER, SET UP ORILL, JRILL HOLES FOR RIVETS, COUNTERS INK HOLES, INSTALL TWO 9LIND RIVETS, AND REMOVE TEMPORARY SCREWS ENDS-WITH ASIDE SCREWS AND SCREWDRIVER
NA A	807	MUA	CMR4NO4	SNFFI10	2880	FASTENER (ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE—NUT LENGTH STARTS—WITH INSTALL ONE TEMPORARY SCREW INCLUDES—ALL MOTIONS NECESSARY TO DRILL AND COUNTERSINK DNE HOLE, INSTALL BLIND RIVET, AND REMOVE TEMPORARY SCREW ENOS—WITH ASIDE SCREW

DATA CCCUP- QUALITY SOURCE ON SOURCE ATION CODE EL

DUMSTOP THU ELEMENT VALUE OPERATION/ELEMENT DESCRIPTION

NAA 307

MUA AMRANSO SNFFILL

5390

3180

FASTENER (ANCHORED), INSTALL NUT PLATE, 1-MAN
OPERATION, ALL TYPES, FIRST PIECE
STARTS-WITH GET TOOLS
INCLUDES-ALL MOTIONS NECESSARY TO SECURE
FASTENER WITH SCREW, INSTALL RIVET WITH RIVET
GUN AND BUCKING BAR OR PORTABLE PNEUMATIC "C"
SQUEEZE), MICROSHAVE RIVET, INSTALL ADDITIONAL
RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM
HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE
OUE TO REAM, MICROSHAVE SECOND RIVET
ENOS-WITH ASIDE MICROSHAVER
CONDITIONS-REAM HOLE FOR MISALIGNMENT REQUIRED
10 PERCENT OF THE TIME.MICROSHAVE RIVETS
REQUIRED 75 PERCENT OF THE TIME.MICROSHAVER
MODEL 33A OR MICRO MILLER MODEL BRM.

NAA 807 MUA AMRANSI SNFFILZ

FASTENER (ANCHORED), INSTALL NUT PLATE, 1-MAN

OPERATION, ALL TYPES, ADDITIONAL

STARTS-WITH GET SCREW TO SECURE FASTENER

INCLUDES-ALL MOTIONS NECESSARY TO SECURE

FASTENER WITH SCREW, INSTALL RIVETS, MICROSHAVE

RIVETS, AND REAM HOLE TO CORRECT MISALIGNMENT

AS NECESSARY

AS NECESSARY

AS NECESSARY

ENDS-WITH ASIDE MICROSHAVER

CONDITIONS-NO TIME INCLUDED FOR TOOL SETUP.

REAM HOLE FOR MISALIGNMENT REQUIRED 10 PERCENT

OF THE TIME.MICROSHAVE RIVETS REQUIRED 75

PERCENT OF THE TIME.MICROSHAVER MODEL 33A OR

MICRO MILLER MODEL BRM USED.

DATA. Source	CCCUP- NCITA	QUALITY	SOURCE CODE	DWMSTDP FLEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
P:AA	807	AUM	AMRANXX	SNFFPXX	VARIABLE	FASTENER (ANCHORED), PREPARE HOLE AND INSTALL STARTS—WITH MEASURE FOR HOLE LUCATION INCLUDES—ALL MOTIONS NECESSARY TO MEASURE A 40 MARK FOR HOLE LUCATION, CENTER PUNCH LOCATION,
						DRILL MOLE, DEBURR HOLE, SECURE NUT PLATE WITH SCREW, DRILL HOLE, INSTALL FIRST RIVET; DRILL HOLE, INSTALL ADDITIONAL RIVET; AND REMOVE SCREW ENDS—WITH ASIDE TOOLS
					16780	CASE OI PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES FIRST PIECE
					5140	O2 PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES, ADDITIONAL PIECE
					19690	O3 PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, FIRST PIECE
					7300	04 PREPARE HOLE AND INSTALL NUT PLATE, ALL
-					16480	TYPES.2-MAN OPERATION.ADDITIONAL PIECE OF PREPARE HOLE AND INSTALL CAMLOC UR AIRLOC RECEPTACLE OR DZUS SPRING.ALL
					4550	TYPES, FIRST PIECE 36 PREPARE HOLE AND INSTALL CAMLOC OR
						AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, ADDITIONAL PIECE
					18780	OF PREPARE HOLE AND INSTALL CAMEDO JR AIRLOC RECEPTACLE OR DZUS SPRING.ALL TYPES.2-MAN DPERATION.FIRST PIECE
					6220	OB PREPARE HOLE AND INSTALL CAMLOC OR AIPLOC RECEPTACLE OR DZUS SPRING, ALL
					2200	TYPES, 2 MAN OPERATION, ADDITIONAL OP PREPARE HOLE AND INSTALL FLAT HEAD
				-	1070	RIV-NUT, ALL SIZES, FIRST PIECE 10 PREPARE HOLE AND INSTALL FLAT HEAD 21 V-NUT ALL SIZES
					4710	RIV-NUT, ALL SIZES, ADDITIONAL PIECE 11 PREPARE HOLE AND INSTALL FLUSH-HEAD
					1190	RIV-NUT, ALL SIZES, FIRST PIECE 12 PREPARE HOLE AND INSTALL FLUSH-HEAD
					2480	RIV-NUT, ALL SIZES, ADDITIONAL PIECE 13 PREPARE HOLE AND INSTALL FLAT HEAD
-			_		1250	OILL NUT, ALL SIZES, FIRST PIECE 14 PREPARE HOLE AND INSTALL FLAT HEAD
					4990	DILL NUT, ALL SIZES, ADDITIONAL PIECE 15 PREPARE HOLE AND INSTALL FLUSH-HEAD
					1370	DILL NUT, ALL SIZES, FIRST PIECE 16 PREPARE HOLE AND INSTALL FLUSH-MEAD DILL NUT, ALL SIZES, AUDITIONAL PIECE

DATA Source	OCCUP- ATTON	QUAL ITY	SOURCE CODE	OWMSTDP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRARXX	SNFFRXX	VARIABLE	FASTENER(ANCHORED), REPLACE STARTS-WITH REACH TO TOOL OR FASTENER INCLUDES-ALL MOTIONS REQUIRED TO REMOVE AND INSTALL VARIOUS TYPES OF ANCHORED FASTENERS
					7037	ENDS-WITH REPLACEMENT FASTENER INSTALLED CASE 01 REMOVE AND INSTALL NUT PLATE,1-MAN OPERATION.ALL TYPES,FIRST PIECE
					3882	02 REMOVE AND INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL PIECE
					9677	O3 REMOVE AND INSTALL NUT PLATE,ALL TYPES.2-MAN OPERATION,FIRST PIECE
					5782	04 REMOVE AND INSTALL NUT PLATE, ALL Types, 2-Man Operation, additional
					5257	PIECE 05 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES,
					25.42	I=MAN OPERATION, FIRST PIECE
					2542	RECEPTACLE OR DZUS SPRING, ALL TYPES,
					7417	O7 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING,ALL TYPES, 2-MAN OPFRATION,FIRST PIECE
					3952	OB REMOVE AND INSTALL CAMLOC OR AIRLUC RECEPTACLE OR DZUS SPRING,ALL TYPES, 2-MAN CPERATION, ADDITIONAL PIECE
			•		1158	OP REMOVE AND INSTALL RIV-NUT, ALL TYPES. FIRST PIECE
				•	804	10 REMOVE AND INSTALL RIV-NUT, ALL TYPES, ADDITIONAL PIECE
	•				1665	11 REMOVE AND INSTALL DILL NUT, ALL TYPES FIRST PIECE
					1456	12 REMOVE AND INSTALL DILL NUT, ALL TYPES ADDITIONAL PIECE
•			•		726	13 REMOVE AND INSTALL FLOATING OR CHANNEL NUT ONLY, FIRST PIECE
:					635	14 REMOVE AND INSTALL FLOATING OR CHANNEL NUT ONLY, ADDITIONAL PIECE 15 REMOVE AND INSTALL CHANNEL NUT
					17699	ASSEMBLY THREE-NUT LENGTH OF CHANNEL.
					3787	16 REMOVE AND INSTALL CHANNEL NUT ASSEMBLY, THREE—NUT LENGTH OF CHANNEL, ADDITIONAL
NAA	807	MBA	AMRQNXX	SNFGIX	X VARIABLE	GROMMET (CAMLOC), INSTALL WITH SNAP RING STARTS-WITH GET SNAP RING TOOL INCLUDES-ALL MOTICNS NECESSARY TO REMOVE RUBBER PROTECTIVE KNOB, GET MANDREL, GET SNAP RING, POSITICN SNAP RING ON MANDREL, POSITION
						SNAP RING TOOL OVER MANDREL, GET GROMMET,
	•				1	AND PLACE RUBBER PROTECTIVE KNUB ON TOOL
		·		•		CONDITIONS-APPLICABLE TO 4002 GROMMET SERIES WITH R4G OR 40G26-L SNAP RINGS
				-	744 311	CASE O1 FIRST GROMMET O2 EACH ADDITIONAL GROMMET
NAA	807	MAA	AMRQRXX	SNEGRX	X VARIABLE	GROMMET (CAMLOC), REMOVE, SECURED WITH SNAP RING STARTS-WITH GET TOOL TO REMOVE SNAP RING INCLUDES-ALL MOTIONS NECESSARY TO REMOVE SNAP
					•	RING USING POINTED TOOL AND PLIERS, AND TO REMOVE GROMMET
					752 473	CASE OI FIRST GROMMET AND SNAP RING O2 EACH ADDITIONAL GROMMET AND SNAP RING
					672	VA CAUN

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	· -	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	AMRQNXX	SNFIGXX	VARIABLE 315 255	GROMMET (AND STUD), INSTALL, DZUS FASTENER, USING PNEUMATIC FLOOR DIMPLER STARTS—WITH GET MATERIAL INCLUDES—ALL MOTIONS NECESSARY TO MOVE MATERIAL TO BOTTOM ANVIL OF DIMPLER, GET GROMMET, POSITION GROMMET IN HOLE, POSITION MATERIAL TO BOTTOM ANVIL, GET STUD, POSITION IN GROMMET, ACTUATE MACHINE WITH FOOT PEDAL, AND CHECK SECURITY OF INSTALLATION ENDS—WITH ASIDE MATERIAL CASE OI FIRST DZUS FASTENER OZ EACH ADDITIONAL DZUS FASTENER IN SAME PIECE OF MATERIAL
ΝΔΔ	807	MAA	SMFNN KX	SNFINXX	VARIABLE	NUT(CHANNEL), INSTALL STARTS—MITH GET CHANNEL NUT ASSEMBLY INCLUDES—ALL MOTIONS NECESSARY TO POSITION CHANNEL, GET DIAGONAL PLIERS, CUT CHANNEL TO LENGTH, ASSIDE PLIERS, GET FILE, SMOOTH CUT END, ASSIDE FILE, POSITION CHANNEL, INSTALL THO SCREWS WITH SCREWORIVER, GET DRILL MOTOR, INSTALL ORILL, DRILL TWO HOLES, REMOVE OR ILL, INSTALL COUNTERSINK, COUNTERSINK THO HOLES, REMOVE COUNTERSINK, ASSIDE DRILL MOTOR, GET RIVET GUN, INSTALL SPRING AND SET, INSTALL THO RIVETS, REMOVE SPRING AND SET, INSTALL THO RIVETS, REMOVE SPRING AND SET, FROM RIVET GUN, ASSIDE RIVET GUN, AND REMOVE THO SCREWS ENDS—WITH ASSIDE SCREWORIVER CONDITIONS—APPLICABLE TO ORILLING NO.45—NO.14 DIAMETER HOLES IN .063—.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH 1/8—5/32 INCH
	•				5298 1078	SETUP TIME FOR DRILL, COUNTERS INK OR RIVET GUN CASE OI FIRST TWO-NUT LENGTH OF CHANNEL OZ EACH ADDITIONAL ONE-NUT LENGTH OF A CHANNEL (INSTALL AND REMOVE ONE SCREW,
					•	ORILL AND COUNTERSINK ONE HOLE, AND INSTALL ONE RIVET)
AAM	807	MBA	AMR QN XX	SNF (SXX		STUD(AIRLOC), INSTALL, PER STUD STARTS-WITH GET AIRLOC STUD INCLUDES-ALL MOTIONS NECESSARY TO GET PIN, POSITION STUD IN HOLE, POSITION PIN IN STUD SHANK, GET TOOL, AND SECURE PIN IN SHANK ENDS-WITH ASIDE TOOL
					420 312	CASE O1 INSTALL STUD WITH AIRLOC TOOL O2 INSTALL STUD WITH PNEUMATIC SQUEEZE
F≢O	807	MAA	KSMANA 1	SNFN(XX	VARIABLE	NUTIANCHOR), INSTALL IN EXISTING HOLES, EASY ACCESS STARTS-WITH GET ANCHOR NUT INCLUDES-ALL MOTIONS NECESSARY TO POSITION ANCHOR NUT TO HOLES, GET CLECO PLIERS, GET AND INSTALL CLECO, ASIDE PLIERS, GET RIVET GUN, GET AND INSTALL SET, GET AND INSTALL SPRING, CONNECT AIR HOSE, GET FIRST RIVET, PLACE RIVET IN HOLE, GET BUCKING BAR AND POSITION TO RIVET, POSITION GUN AND ORIVE RIVET, ASIDE BUCKING BAR, MOVE GUN TO ONE SIDE, INSPECT INSTALLATION, GET CLECO PLIERS, REMOVE CLECO, ASIDE PLIERS AND CLECO, GET SECOND RIVET, PLACE IN HOLE, GET AND PLACE BUCKING BAR, MOVE RIVET GUN TO RIVET, DRIVE RIVET, ASIDE BUCKING BAR, DISCONNECT AIR HJSE, ASIDE RIVET GUN, AND INSPECT INSTALLATION ENOS-WITH ASIDE INSPECTION LIGHT CONDITIONS-APPLICABLE TO 3/32-3/16 INCH
					2573 1933	CASE OI FIRST ANCHOR NUT OZ EACH ADDITIONAL ANCHOR NUT

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KSMANA 3	SNFNI 03	4502	NUT(ANCHOR), INSTALL, DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, FIRST NUT, FASY ACCESS
						STARTS-WITH GET ANCHOR NUT INCLUDES-ALL MOTIONS NECESSARY TO POSITION NUT FOR DRILLING.GET ORILL MOTOR,GET AND INSTALL ORILL, CONNECT AIR HOSE, DRILL TWO HOLES, DISCUNDECT AIR HOSE, DISASSEMBLE AND ASIDE
						DRILL, GET AND INSTALL SCREW, INSTALL TWO CLECOS, REMOVE TWO CLECOS, COUNTERS INK TWO HOLES, INSTALL TWO RIVETS, AND REMOVE SCREW ENDS-WITH AS IDE SCREWORIVER CONDITIONS-APPLICABLE TO DRILLING HOLE TO 3/16 INCH DIAMETER IN ALUMINUM OR MAGNESIUM T) .100 INCH THICKNESS AND INSTALLING 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET
FFD	807	M A A	K SMANA 4	SNFNI 04	2863	NUT(ANCHER), INSTALL, EASY ACCESS, OR ILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, EACH ADDITIONAL NUT STARTS—WITH GET ANCHOR NUT INCLUDES—ALL MOTIONS NECESSARY TO POSITION NUT FOR OPILLING, ORILL TWO HOLES, GET AND INSTALL HOLDING SCREW, INSTALL AND REMOVE TWO CLEODS, COUNTERSINK TWO HOLES, INSTALL TWO RIVETS AND REMOVE HOLDING SCREW ENDS—WITH ASIDE SCREWORIVER
				. •		CONDITIONS—APPLICABLE TO DRILLING HOLE TO 3/16 INCH DIAMETER IN ALUMINUM OF MACHESIUM TJ -103 INCH THICKNESS AND INSTALLING 3/32-3/16 [MCH DIAMETER SOLID HEAD RIVET
NAA	8C7	MBA	SMFNN02	SNFNIOS	4039	NUT(ANCHOR), INSTALL WITH TWO RIVETS, FIRST NOT (USE DRILL JIG TO LOCATE ATTACH HOLES) STARTS-WITH GET DRILL JIG INCLUDES-ALL MOTICNS NECESSARY TO POSITION JIG IN HOLE, GET DRILL MOTOR, INSTALL DRILL IN CHUCK, DRILL ANCHOR NUT ATTACH HOLE, REPUSITION JIG FOR SECOND HOLE, DRILL HOLE, REMOVE ANJ
			•			ASIDE JIG, REMOVE DRILL, INSTALL COUNTERSINK, ASIDE COUNTERSINK TWO HOLES, REMOVE COUNTERSINK, ASIDE DRILL MOTOR, GET ANCHOR NUT, POSITION TO HOLES, INSTALL CLECO WITH PLIERS, SET UP RIVET GUN, INSTALL FIRST RIVET, REMOVE CLECC, INSTALL SECOND RIVET, AND REMOVE SPRING AND SET FROM RIVET GUN
						ENDS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO DRILLING NO.+5-NJ4 DIAMETER HOLES IN .063090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH A 1/8-5/32 INCH 100 DEGREE COUNTERSINK.ALUMINUM OR MONEL RIVETS 1/8 - 3/16 INCH DIAMETER
NAA	807	мва	SMFNN03	SNFNI 06	1448	NUTIANCHER). INSTALL WITH TWO RIVETS, ADDITIONAL NUTIUSE ORILL JIG TO LOCATE ATTACH HOLES) STARTS-WITH GET DRILL JIG INCLUDES-ALL MOTIONS NECESSARY TO POSITION JIG IN HOLE. DRILL FIRST HOLE. REPOSITION JIG, OR ILL SECOND HOLE, REMOVE JIG, COUNTERSINK HOLES, GET ANCHOR NUT, POSITION TO HOLES, INSTALL CLEED.
						INSTALL FIRST RIVET, REMOVE CLECO, AND INSTALL SECOND RIVET ENDS—WITH RIVET GUN IN HAND CONDITIONS—DOES NOT INCLUDE ANY SETUP TIME FOR DRILL, COUNTERS INK, OR RIVET GUN. APPLICABLE TO DRILLING NO. 45-NO. 14 DIAMETER HOLES IN .063090 INCH THICKNESS ALUMINUM AND COUNTERS INKING WITH 1/8-5/32 INCH 100 DEGREE
						COUNTERSINK ALUMINUM OR MONEL RIVETS 1/8 - 3/16 INCH DIAMETER.

DATA SOURCE		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
N.C. A	807	AUM	ONFSDII	SNFPIOL	458	PIN(ORAW TYPE SHEAR), INSTALL STARTS-WITH GET COLLAR INCLUDES-ALL MOTIONS NECESSARY TO GET PIN, INSERT IN HOLE, PLACE COLLAR ON PIN, GET SHAGING TOOL OR PIN, SWAGE COLLAR, AND EXAMINE INSTALLATION ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO HUCK PULL TYPE SHEAR PIN OR SIMILAR TO 3/8 INCH DIAMETER, ANY LENGTH, AND HUCK GUN MODEL 352, 200 OR SIMILAR
N A A	807	MAA	AMRAR54	SNFRFXX	229 181	FASTENER (ANCHORED), REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY STARTS—WITH GET DUCKBILL PLIERS INCLUDES—ALL MOTIONS NECESSARY TO GET PLIERS, BEND TWO TABS; AND GET, REMOVE, AND ASIDE NUT ENDS—WITH ASIDE NUT CASE 01 FIRST OR SINGLE NUT O2 EACH ADDITIONAL NUT
AAH	807	MAA	XX PQ RMA	SNFRSXX	342 288	STUD(AIRLCC), REMOVE PIN WITH AIRLOC TOOL STARTS-WITH GET AIRLOC TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION AIRLOC STUD IN TOOL, REMOVE PIN, AS 10E TOOL, AND REMOVE STUD ENOS-WITH AS IDE PIN AND STUD CASE 01 FIRST STUD 02 EACH ADDITIONAL STUD
NA A	807	MAA	XX NC SMA	SNFSIXX	VARIABLE 215 106	STUD(CAMLOC), INSTALL WITH CAMLOC PLIERS, NO RETAINING WASHER STARTS-WITH GET CAMLOC STUD ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET CAMLOC PLIERS, POSITION PLIERS TO STUD, COMPRESS SPRING, POSITION STUD IN GROMMET, AND REMOVE PLIERS FROM STUD ENDS-WITH ASIDE PLIERS CASE O1 FIRST STUD ASSEMBLY 02 EACH ADDITIONAL STUD ASSEMBLY
NΔΔ	807	МАА	AMR QN 3 2	SNFSI03	318	STUDISTRESS HEAD CAMLOC), INSTALL, PER STUD STARTS-WITH GET CAMLOC STUD ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO POSITION STUD IN HOLE, GET RETAINER RING, POSITION ON STUD, GET HOLLUW ORIVE BAR, POSITION ON RETAINING RING, GET HAMMER, SEAT RETAINING RING, AND VISUALLY INSPECT ASSEMBLY ENDS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO 4S STUD AND RETAINER SERIES
MAA	807	МДД	AMRQRXX	SNF SR XX	VARIABLE 204 116	STUD(CAMLOC), REMOVE, NO RETAINING WASHER STARTS-WITH GET CAMLOC PLIERS INCLUDES-ALL MOTIONS NECESSARY TO RAISE STUD WITH FINGER AND HOLD, POSITION PLIERS UNDER SPRING CUP, COMPRESS SPRING, AND REMOVE STUD FRCM GROMMET ENDS-WITH ASIDE STUD AND PLIERS CASE 01 FIRST STUD 02 EACH ADDITIONAL STUD
AAM	807	М Д. 6.	AMR QN33	SNF WI OI	326	WASHER(SPLIT).INSTALL ON CAMLOC STUD ASSEMBLY STARTS-WITH GET SPLIT WASHER INCLUDES-ALL MOTIONS NECESSARY TO GET PLIERS. GRASP WASHER WITH PLIERS.BEND WASHER TO FNLARGE OPENING.HOLD STUD.PLACE WASHER ON STUD.BEND WASHER TO CLOSE OPENING.AND VISUALLY INSPECT ASSEMBLY ENDS-WITH ASIDE PLIERS CONDITIONS-APPLICABLE TO 2600-SW.2700-SW.AND 4002-SW WASHER SERIES

						TO THE PROPERTY OF COLUMN
DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	AMRQN34	SNFW102	274	WASHER(SQLID), INSTALL ON CAMLOC STUD ASSEMBLY STARTS-WITH GET LOCKWASHER INCLUDES-ALL MOTIONS NECESSARY TO GET LOCKWASHER TOOL, POSITION LOCKWASHER IN TOOL, HOLD STUD, INSTALL LOCKWASHER, REMOVE TOOL, AND VISUALLY EXAMINE ASSEMBLY ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO 2600-LW AND 27S5-L WASHER SERIES
NAA	807	MAA.	AMRQR32	SNFWR01	140	WASHER(SPLIT), REMOVE FROM CAMLOC STUD, PER WASHER STARTS-WITH GET PLIERS INCLUDES-ALL MOTIONS NECESSARY TO HOLD CAMLOC STUD, GET WASHER WITH PLIERS, BEND WASHER TO ENLARGE OPENING, AND REMOVE WASHER ENDS-WITH ASIDE WASHEP AND PLIERS CONDITIONS-APPLICABLE TO 2600-SW, 2700-SW, AND 4002-SW SERIES WASHERS
FFD	807	ΤΔΔ	KTLPTCB	aptacol	1591	ALUMINUM, CUT WITH DISC. ROUTER OR SIMILAR MOUNTED IN PNEUMATIC GUN, PROCESS TIME ONLY STARTS-WITH CUTTER IN POSITION TO CUT INCLUDES-ALL MOTIONS NECESSARY TO CUT ONE LINEAR INCH OF ALUMINUM SHEET OR TUBING .081 TO .125 INCH THICK ENDS-WITH COMPLETION OF CUT CONDITIONS-APPLICABLE TO 3000 RPM PNEUMATIC SUN
FFO	807	TAA	KTLPTCC	BPTACO2	1985	ALUMINUM.CUT WITH SAW MOUNTED IN PNEUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING INCLUDES-ALL MOTIONS NECESSARY TO CUT ONE LINEAR INCH DE, ALUMINUM SHEET OR TUBING TO .250 INCH THICK ENDS-WITH CUT COMPLETED CONDITIONS-APPLICABLE TO 3000 RPM PNEUMATIC GUN AND SAW THO INCHES IN DIAMETER WITH 40-60 TEETH DER INCH
FFO	807	TAA	KSMHA [2	3PT8\$01	50	BOLT (HUCK LOCK).SET WITH PULL TYPE GUN STARTS-WITH ACTUATION OF GUN TRIGGER INCLUDES-ALL THE TIME NECESSARY TO SET ONE HUCK LOCK BOLT ENDS-WITH RELEASE OF TRIGGER
FFO	807	TΔΔ	KSMTPR2	3PTCSOL	153	COLLAR(RIVET), SPLIT WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY STARTS—WITH ACTUATE RIVET GUN SWITCH INCLUDES—ALL THE TIME NECESSARY TO SPLIT ONE RIVET COLLAR ENDS—WITH RELEASE OF SWITCH
FFO	807	TAA	KPTJBI3	RPTJ[0]	49	JJ-BOLT, INSTALL WITH PNEUMATIC TOOL STARTS-WITH ACTUATION OF TRIGGER INCLUDES-ALL THE MACHINE TIME NECESSARY TJ TURN DOWN AND TIGHTEN ONE JO-BOLT ENDS-WITH RELEASE OF TRIGGER

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	TUA	SMRSNXX	SSRSAXX	VARIABLE	SEALANT, APPLY WITH PNEUMATIC SEALANT GUN STARTS-WITH GET GUN INCLUDES-ALL MOTIONS NECESSARY TO PLACE GUN IN VISE, DISCONNECT AIR HOSE, UNSCREW SEALANT CHAMBER, ASIDE PNEUMATIC PISTON, GET SCREWORIVER AND PUSH PLUNGER DOWN, GET CAN OF SEALANT, PRY LID OFF, GET PUTTY KNIFE, CUT SEALANT FROM CAN, REPLACE LID ON CAN, GET SEALANT IN HAND, KNEAD
						SEALANT AND PLACE IN GUN, GET SEALANT CHAMBER, SCREW ON GUN, CLEAN SURFACE, REMOVE SCREW, CHECK HOLE DEPTH WITH SCALE, ADJUST PROBE REACH, INSTALL PROBE, POSITION GUN TO PROBE, CONNECT AIR HOSE, APPLY SEALANT TO FOUR LINEAR INCHES, DISCONNECT AND ASIDE GUN, REMOVE PROBE, AND INSTALL SCREW ENDS—WITH ASIDE SCREWORIVER CONDITIONS—APPLICABLE TO DOW—CORNING SEALANT
	-				29718	NO.DC-94-011 OR SIMILAR CASE OI GET GUN.FILL.AND APPLY SEALANT TO FOUR
					17030	LINEAR INCHES O2 APPLY SEALANT TO FOUR ADDITIONAL LINEAR INCHES(APPLICATION ONLY)
NAA	807	MAA	AMRAN54	MTFFIXX	VARIABLE	FASTNER (ANCHORED), INSTALL RIV-NUT, MANUAL MOTIONS CNLY
				:		STARTS-WITH GET SQUEEZE TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET SQUEEZE TOOL.POSITION TOOL FOR RIV-NUT, GET RIV-NUT, POSITION TO TOOL AND START THREAD, RUN RIV-NUT DOWN THREAD, BOTTOM RIV-NUT ON THREAD,
					,	POSITION RIV-NUT IN HOLE, APPLY PRESSURE TO SEAT NUT, RELEASE HANDLE, REACH TO CRANK KNOB, HOLD TOOL AND UNTHREAD FROM NUT
						ENDS-WITH ASIDE TOOL CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32, PROCESS TIME NOT INCLUDED.
	•		•		500 440	CASE OL FIRST RIV-NUT O2 EACH ADDITIDNAL RIV-NUT
MAA	807	MBA	OTFHMXX	STFBEXX	VARIABLE	BOLT(HI-LOK), INSTALL WITH MANUAL TOOLS STARTS-WITH GET HANDFUL OF BOLTS(FIRST BOLT) OR UNPALM BOLT(ADDITIONAL BOLT)
						INCLUDES-ALL MOTIONS NECESSARY TO INSERT BOLT IN HOLE, GET HAMMER, DRIVE BOLT THROUGH HOLE, ASIDE HAMMER, GET COLLAR, PLACE COLLAR ON BOLT,
						TURN COLLAR ON THREADS BY HAND, GET SPECIAL RATCHET OR RATCHET BOX WRENCH AND ALLEN WRENCH, TIGHTEN COLLAR ON BOLT, AND BREAK COLLAR AWAY
					973	ENDS→WITH ASIDE TOOLS CASE O1 FIRST BOLT,BOLT AND COLLAR,NO INTERFERENCE,NOMINAL REACH AND MJVE
					757	DISTANCES-18 INCHES 02 FACH ADDITIONAL BOLT, BOLT AND COLLAR NO INTERFERENCE, NOMINAL REACH AND MOVE
					1327	DISTANCES-18 INCHES 03 FIRST BOLT, BOLT AND COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE
					1007	DISTANCES=24 INCHES 04 EACH ADDITIONAL BOLT, BOLT AND COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND
					2471	MOVE DISTANCES=24 INCHES 05 FIRST BOLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE
					2268	DISTANCES=24 INCHES 06 EACH ADDITIONAL BOLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES=24 INCHES

DATA SOURCE		QUAL ITY	SOURCE CODE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ FLEMENT DESCRIPTION
FFD	307	MAA	KAL SAN1	STEBLO7	473	B DLT(H[=LOK), INSTALL, POWER TOOLS, FIRST STARTS=WITH SIMO GET OF GUN AND BOLT(S) INCLUDES=ALL MOTIONS NECESSARY TO PLACE BOLT IN HOLE, PLACE GUN TO BOLT, INSTALL BOLT, GET COLLAR(S), PLACE COLLAR ON PIN AND START ON THREADS, PLACE GUN ON COLLAR, AND TIGHTEN COLLAR ENDS=WITH ASIDE GUN
FFD	307	AAM ·	KALSAN2	STFB108	390	BULT(HI→LOK), INSTALL, POWER TOOLS, ADDITIONAL STARTS-WITH BOLT AND GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BOLT TO MOLE, POSITION GUN TO BOLT, INSTALL BOLT, GET COLLAR, POSITION CGLLAR ON PIN, START THREADS, PLACE GUN ON CCLLAR, AND TIGHTEN COLLAR ENDS-WITH GUN IN HAND
NAA	807	MBA	OTFHMRX	STFBRXX	VARIABLE	BOLT (HI-LOK). REMOVE, MANUAL TOOLS STARTS-WITH GET PLIERS (FIRST) OR MOVE PLIERS TO COLLAR (ACCITIONAL) [NCLUDES-ALL MOTICNS NECESSARY TO ADJUST PLIERS (CHANNEL LOCK OR SLIP JOINT). PLAGE PLIERS ON COLLAR. GET ALLEN WRENCH AND PLACE IN BOLT, TURN COLLAR WITH PLIERS APPROXIMATELY FIVE THREADS. ASIDE PLIERS AND ALLEN WRENCH, UNSCREW COLLAR ONE THREAD BY HAND, ASIDE COLLAR. GET HAMMER AND ORIFT. AND ORIVE BOLT OUT ENDS-WITH ASIDE TOOLS
				. •	1744	CASE OI FIRST BOLT, BOLT AND COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES = 18 INCHES 02 EACH ADDITIONAL BOLT, BOLT AND COLLAR.
			•		1476 2486	NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES = 18 INCHES 03 FIRST BOLT, BOLT AND COLLAR, SLIGHT
	•		•		2166	INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES 04 EACH ADDITIONAL BOLT, BOLT AND COLLAR,
					3651	MOVE DISTANCES=24 INCHES, 05 FIRST BOLT, ROLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES=24 INCHES
			•		3289	O6 EACH ADDITIONAL ROLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES=24 INCHES
AAF	807	MBA	OTFH#XX	STFCIXX	VARIABLE	COLLAR(HI-LOK BOLT), INSTALL, MANUAL TOOLS STARTS-WITH GET HANDFUL OF COLLARS(FIRST)OR UNPALM COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO TURN COLLAR ON THREADS BY HANO, GET SPECIAL RATCHET OR RATCHET BOX END WRENCH AND ALLEN WRENCH, PLACE TOOL(S) TO BOLT AND COLLAR, TIGHTEN COLLAR, AND BREAK AWAY COLLAR ENDS-WITH ASIDE TOOLS
					706	CASE OI FIRST COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES
					602	O2 EACH ADDITIONAL COLLAR.NO INTER- FERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES O3 FIRST COLLAR.SLIGHT INTERFERENCE.
					930 756	NOMINAL REACH AND MOVE DISTANCES=24 INCHES 04 FACH ADDITIONAL COLLAR, SLIGHT
					1958	INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES 05 FIRST COLLAR, DIFFICULT ACCESS, NOMINAL
					1804	REACH AND MOVE DISTANCES=24 INCHES 06 EACH ADDITIONAL COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES=24 INCHES

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALŲE	OPERATION/ELEMENT DESCRIPTION
NEA	807	MBA -	ОТЕНЧХХ	STFCRXX	VARTABLE	COLLAR(HI=LCK BOLT), REMOVE, MANUAL TOOLS STARTS=WITH GET PLIERS(FIRST) OR MOVE PLIERS TO COLLAR(ADDITIONAL) INCLUDES=ALL MOTIONS NECESSARY TO ADJUST PLIERS(CHANNEL LOCK OR SLIP JOINT), PLACE PLIERS ON COLLAR, GET ALLEN WRENCH AND PLACE IN BOLT, TURN COLLAR WITH PLIERS APPROXIMATELY FIVE THREADS, ASIDE TOOLS, AND UNSCREW COLLAR ONE THREAD BY MAND
					1317	ENDS-WITH ASIDE COLLAR CASE OI FIRST COLLAR, NO INTERFERENCE, NOMINAL
					· 1227	REACH AND MOVE DISTANCES-18 INCHES OZ EACH ADDITIONAL CULLAR, NO INTERFERENCE, NOMINAL REACH AND MUVE
					2055	DISTANCES-18 INCHES 03 FIRST COLLAR, SLIGHT INTERFERENCE, NIMINAL REACH AND MOVE DISTANCES-24
					1917	INCHES 04 EACH ADDITIONAL COLLAR, SLIGHT INTERFERICE, NOMINAL REACH AND MUVE
					3101	DISTANCES=24 INCHES 05 FIRST COLLAR, DIFFICULT ACCESS, NOMINAL
					2937	REACH AND MOVE DISTANCES-24 INCHES 06 EACH ADDITIONAL COLLAR, DIFFICULT ACCESS, NOMINAL PEACH AND MOVE DISTANCES-24 INCHES
NAA	807	МДД	AMR 4N52	STF,F101	883	FASTENER(ANCHORED), INSTALL DILL NUT WITH TOUL, FIRST PIECE STARTS—WITH GET DILL NUT TOOL INCLUDES—ALL THE MOTIONS NECESSARY TO GET DILL
		.*				NUT TOCL, MOVE TO APPROXIMATE LOCATION, GET DILL NUT, MOVE NUT TO TOCL, CHECK RATCHET POSITION, MOVE TOOL WITH NUT TO HOLE, PUSH FIRM, ENGAGE RATCHET TO NUT SLOT, REGRASP AND HOLD FIRM, TIGHTEN NUT(SLEEVE), REMOVE TOOL FROM NUT, ASIDE TOOL, GET PLIERS TO NUT, CHECK NUT FOR TIGHTNESS WITH PLIERS, ASIDE PLIERS ENDS—WITH ASIDE PLIERS CONDITION—ADJUSTMENT OF RATCHET IS REQUIRED 50 PERCENT OF THE TIME.INCLUDES FLUSH OR FLAT HEAD TO SIZE 10—32
NAA	807	МАА	AMRAN53	STFFI02	730	FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ADDITIONAL PIECE STARTS—WITH GET DILL NUT INCLUDES—ALL MOTIONS NECESSARY TO GET DILL NUT TO TOOL, MOVE TOOL WITH NUT TO HOLE, PUSH FIRM, ENGAGE RATCHET TO NUT SLOT, REGRASP AND HOLD FIRM, TIGHTEN NUT(SLEEVE), MOVE TOOL FROM NUT, CHECK NUT FOR TIGHTNESS USING PLIERS ENDS—WITH ASIDE PLIERS CONDITIONS—INCLUDES FLUSH OR FLAT HEAD TO SIZE 10—32
NAA	807	MUA	AMRAN50	STFF103	610	FASTENER (ANCHORED), INSTALL RIV-NUT, FIRST PIECE STARTS-WITH GET SQUEEZE TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET SQUEEZE TOOL, GET RIV-NUT, SCREW RIV-NUT ON TOOL, POSITION RIV-NUT IN HOLE, SQUEEZE TOOL TO SECURE RIV-NUT, AND REMOVE TOOL FROM RIV-NUT ENDS-WITH ASIDE TOOL CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO 10-32

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	МПФ	AMRAN51	STFFI04	550	FASTENER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL STARTS-WITH GET RIV-NUT, TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREW RIV-NUT ON TOOL, POSITION RIV-NUT IN HOLE, SQUEEZE TOOL HANDLES TO SECURE RIV-NUT, AND REMOVE TOOL FROM RIV-NUT ENDS-WITH TOOL IN HAND CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO 10-32
NAA	807	MAA	AMRAR52	STFFRXX	VARIABLE	FASTENER (ANCHORED), REMOVE DILL NUT STARTS-WITH GET DILL NUT TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET DILL NUT TOOL, CHECK RATCHET, ADJUST RATCHET IF NECESSARY, POSITION TOOL TO SLOT, LOOSEN NUT SLEEVE, REMOVE TOOL FROM COLLAR, ASIDE TOOL AND COLLAR ENDS-WITH ASIDE TOOL OR COLLAR CONDITION-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32. ADJUSTMENT OF RATCHET REQUIRED SO PERCENT OF THE TIME FOR FIRST NUT. CASE 01 FIRST DILL NUT
FFD	807	MBA	KSMBTXX	STFIBXX	726 VARIABLE	02 EACH ADDITIONAL DILL NUT BOLT(HI=TORQUE), INSTALL WITH PNEUMATIC TOOL, PER BOLT STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTICNS NECESSARY TO GAUGE HOLE
	·		•	• •		DEPTH.GET BOLT.PLACE IN HOLE.GET HAMMER.SEAT BOLT.ASIDE HAMMER.START COLLAR ON BOLT BY HAND.GET PNEUMATIC TOOL.PLACE TOOL ON BOLT. TIGHTEN BOLT.SHAKE SHEARED COLLAR FROM TOOL, ASIDE TOOL.AND INSPECT INSTALLATION WITH LIGHT ENDS-WITH ASIDE LIGHT CONDITIONS-TIME FOR SET UP OF PNEUMATIC TOOL
	•				826 1029	CASE OI INSTALL BOLT IN UNOBSTRUCTED LOCATION OZ INSTALL BOLT IN OBSTRUCTED LICATION (INSPECTION IS PERFORMED WITH LIGHT AND MIRROR).
⊊ F D	807	MAA	KSMBT11	STFIB03	1069	BOLT(HI-TOPQUE), INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE TO DETERMINE BOLT LENGTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET ALLEN WRENCH, GET DPEN END WRENCH, PLACE ALLEN WRENCH IN BOLT, PLACE END WRENCH ON COLLAR, TIGHTEN COLLAR, ASIDE SHEARED COLLAR, ASIDE TOOLS, AND INSPECT INSTALLATION WITH LIGHT
₽ F O	807	MAA	KSMBT[3	STFIB04	1535	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN CBSTRUCTED LOCATION STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE TO DETERMINE BOLT LENGTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET ALLEN ARENCH, GET OPEN FND WRENCH, PLACE ALLEN WRENCH IN BOLT, PLACE END WRENCH ON COLLAR, TIGHTEN COLLAR, ASIDE SHEARED COLLAR, ASIDE TOOLS, AND INSPECT INSTALLATION WITH LIGHT AND MIRROR

DATA SOUPCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AAN	807	MAA	OTFBJXX	STFIJXX	VARIABLE	JO-BOLT, INSTALL WITH HAND TOOL STARTS-WITH GET JO-BOLT SELECTOR GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, ASIDE GAUGE, GET SOCKET, ASSEMBLE AND ADJUST LOCKSET, POSITION BOLT TO LOCKSET, POSITION LOCKSET AND BOLT TO HOLE, TIGHTEN
					005	UNTIL BOLT SHEARS, MOVE TOOL AND CHECK BOLT, DISASSEMBLE AND ASIDE TOOLS ENDS-WITH ASIDE TOOL CONDITION-JO-BOLT TO 3/16 INCH DIAMETER, NUT OR CCS TYPE
					885 455	CASE OI FIRST JO-BOLT OZ EACH ADDITIONAL JO-BOLT
484	807	MUA	OTFBJXX	STFJIXX	VARIABLE	JO-BOLT, INSTALL WITH ARO JO-BOLT GUN MODEL 7 OR SIMILAR STARTS-WITH GET JO-BOLT SELECTOR GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH.ASIDE GAUGE, GET JO-BOLT GUN, GET JO-BOLT, PLACE JO-BOLT IN LOCKSET OF GUN, POSITION GUN
					461	AND JO-BOLT TO HOLE, TIGHTEN JO-BOLT, REMOVE GUN, DISCARD SHEARED PORTION OF JO-BOLT, AND CHECK INSTALLATION ENDS-WITH ASIDE GUN-CONDITIONS-APPLICABLE TO INSTALLATION OF JO-BOLT TO 3/16 INCH DIAMETER CASE OI FIRST JO-BOLT
FFD	807		vc4 10 1 2		209	02 EACH ADDITIONAL JO-80LT
	807	MAA	KSMJBI2	21103	631	JO-BOLT, INSTALL, OBSTRUCTED, USE JO-BOLT SET STARTS-WITH GET GAUGE, GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO DETERMINE GRIP LENGTH WITH HOOK GAUGE, ASIDE GAUGE, GET JO-BOLT, POSITION IN HOLE, GET JO-BOLT SET, POSITION TO JO-BOLT, ORIVE JO-BOLT, SHAKE SHANK FROM SET ENDS-WITH GUN IN HAND
FFD	807	MUA	KSMJBXX	STFJRXX	VARIABLE	JO-BOLT, REMOVE STARTS-WITH GET DRILL MOTOR INCLUDES-ALL MOTIONS NECESSARY TO GET AND INSTALL DRILL BIT, CONNECT AIR HOSE, MUVE DRILL
·						TO JO-BOLT, DRILL JO-BOLT HEAD, REMOVE DRILL BIT, DISCONNECT AIR HOSE, AS IDE DRILL BIT AND DRILL MOTOR, GET HAMMER, GET PUNCH, PLACE PUNCH TO DRILLED HEAD, DRIVE OUT SHANK, AS IDE HAMMER, GET PLIERS, PULL DRILLED HEAD FROM PUNCH AND AS IDE, AS IDE PLIERS, AS IDE PUNCH, GET SHANK, AND AS IDE TO TRASH
•	·				2819 2190 1333 704	ENDS-WITH RELEASE SHANK CASE OI REMOVE FIRST STEEL JO-BOLT O2 REMOVE EACH ADDITIONAL STEEL JO-BOLT O3 REMOVE FIRST ALUMINUM JO-BOLT O4 REMOVE EACH ADDITIONAL ALUMINUM JO-BOLT

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	OTFBJXX	STFRJXX	VARIABLE	JO-BOLT, REMOVE STARTS-WITH GET DRILL MOTOR INCLIDES-ALL MOTIONS NECESSARY TO GET DRILL MOTOR, INSTALL DRILL, POSITION DRILL TO BOLT,
	•		·		•	DRILL OUT BOLT, GET NUT ON DRILL, REMOVE NUT WITH CARE, ASIDE NUT, GET PLIERS TO NUT, ACTUATE MOTOR TO SPIN OUT NUT, ASIDE NUT AND ORILL; OR GET E-Z OUT, ADJUST AND POSITION TO NUT, SEAT FIRMLY ON NUT, REMOVE NUT, DISENGAGE NUT FROM E-Z OUT, ASIDE NUT AND E-Z OUT
						ENDS-WITH ASIDE TOOLS CONDITION-APPLIES TO JO-BOLT TO 3/16 INCH OIAMETER.NUT OR CCS TYPE
					1222	CASE OF REMOVE FIRST JO-BOLT USING DRILL WITH STRAIGHT CHUCK, E-Z OUT NOT REQUIRED
					617	OZ REMOVE EACH ADDITIONAL 10-BOLT USING DRILL WITH STRAIGHT CHUCK, E-Z OUT NOT REQUIRED
					1598	O3 REMOVE FIRST JO-BOLT USING DRILL WITH STRAIGHT CHUCK, USE OF E-Z DUT REQUIRED
					657	04 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH STRAIGHT CHUCK, USE OF E-Z OUT REQUIRED
					1423	05 REMOVE FIRST JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, E-Z DUT NOT REQUIRED 06 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, E-Z DUT NOT REQUIRED
					1781	O7 REMOVE FIRST JO-BOLT USING ORILL WITH 90 DEGREE CHUCK, USE OF E-Z OUT REQUIRED
			•		1002	OB REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH 90 DEGREE CHUCK,USE OF E⇒Z OUT REQUIRED
NAA	807	MBA	AMRORXX	STLACXX	VARTABLE	AREA(DAMAGED), CUT AWAY, ALUMINUM ALLOY TO .U64
	•					STARTS-WITH VISUALLY EXAMINE DAMAGED AREA INCLUDES-ALL MOTIONS NECESSARY TO MEASURE SIZE
			•			OF AREA TO BE CUT AWAY, MARK OUTLINE OF PATCH, SET UP AIR POWERED DRILL, DRILL PILOT HOLE, COUNTERBORE FOR ACCESS BY SNIPS, CUT AWAY DAMAGED AREA WITH COMPOUND LEVER SNIPS, SET UP
						ORILL WITH ROTARY FILE, CUT TO LINE WITH ROTARY FILE, AND FINAL DRESS HOLE WITH HAND FILE AND EMERY CLOTH FINDS-WITH ASIDE TOOLS
						CONDITIONS—USE OF DRILL TO PILOT DRILL AND COUNTERBORE COMPUTED AT 30% OCCURRENCE
					19280	CASE OI REMOVE EXTERNAL SURFACE DAMAGE.TJ 4 INCHES DIAMETER OF THE PROPERTY OF
					31000	O2 REMOVE EXTERNAL SURFACE DAMAGE, 4-7 INCHES DIAMETER O3 REMOVE EXTERNAL SURFACE DAMAGE, 7-10
					42840	INCHES DIAMETER 04 REMOVE EXTERNAL SURFACE DAMAGE, 10-13
					55170 67250	INCHES DIAMETER OS REMOVE EXTERNAL SURFACE DAMAGE, 13-16
					61230	INCHES DIAMETER

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION .
NEA	807	TU∆	AMRMMXX	STLASXX	VARIABLE	ALUMINUM, SAW WITH JEWELER'S OR SKIN SAW, PER STRAIGHT LINEAR INCH STARTS-WITH GET SAW INCLUDES-ALL MOTIONS NECESSARY TO POSITION SAW TO CUTTING POINT AND CUT ONE STRAIGHT LINEAR INCH
						ENDS-WITH ASIDE SAW CONDITIONS-MADDITIONAL INCHM CASES INCLUDE .
					200	CUTTING PROCESS TIME ONLY CASE OI FIRST LINEAR INCH, MATERIAL .032045
					90	INCH THICKNESS 02 EACH ADDITIONAL LINEAR INCH, MATERIAL
					230	.032045 INCH THICKNESS 03 FIRST LINEAR INCH.MATERIAL .046064
				•	120	INCH THICKNESS OF EACH ADDITIONAL LINEAR INCH, MATERIAL
					. 290	.046064 INCH THICKNESS 05 FIRST LINEAR INCH.MATERIAL .065100
					180	INCH THICKNESS 06 EACH ADDITIONAL LINEAR INCH, MATERIAL
						.065100 INCH THICKNESS
NAA	907	MRA	AMRORXX	STLCAXX	VARIABLE	AREA(DAMAGED), CUT AWAY, ALUMINUM ALLOY TO .064 INCH THICKNESS, RECTANGULAR AREA STARTS—WITH VISUAL EXAMINATION OF DAMAGED AREA INCLUDES—ALL MOTIONS NECESSARY TO MEASURE AND
				.•		MARK AREA TO BE CUT, CENTER PUNCH FOUR CORNERS FOR DRILLING, SET UP AIR POWERED OR ILL, PILOT OR ILL AND COUNTERBORE CORNERS, CUT AWAY DAMAGED AREA WITH SNIPS, AND FINAL DRESS WITH FILE AND EMERY CLOTH
					26580	ENDS-WITH ASIDE TOOLS CASE OF REMOVE EXTERNAL SURFACE DAMAGE TO 16
	•			• •		INCHES PERIMETER 02 REMOVE EXTERNAL SURFACE DAMAGE 16-28
		•		•	42110 57650	INCHES PERIMETER 03 REMOVE EXTERNAL SURFACE DAMAGE 28-40
			•		73190	INCHES PERIMETER 04 REMOVE EXTERNAL SURFACE DAMAGE 40-52
					88730	INCHES PERIMETER 05 REMOVE EXTERNAL SURFACE DAMAGE 52-64
					00730	INCHES PERIMETER
MAA	807	AAM	SMRORXX	STLORXX	VARTABLE	DENT, REMOVE FROM ALUMINUM TO .064 INCH THICKNESS, PER SQUARE INCH STARTS-WITH GET PART
						INCLUDES-ALL MOTIONS NECESSARY TO MOVE PART TO WORK AREA-GET WEIGHT AND PLACE ON PART-GET
						BACK-UP BAR, POSITION TO DENT, GET HAMMER, STRIKE FOUR BLOWS TO DENT AREA, MAKE VISUAL
						EXAMINATION AFTER EACH HAMMER BLOW, ASIDE HAMMER, FEEL PART WITH HAND TO CHECK
_						SMOOTHNESS, ASIDE BACK-UP BAR, AND ASIDE WEIGHT ENDS-WITH ASIDE PART
					801 530 363	CASE O1 FIRST SQUARE INCH OF DENT O2 FIRST SQUARE INCH OF ADDITIONAL DENT O3 EACH ADDITIONAL SQUARE INCH DF SAME DENT
NF	8 29	MAF	1272/73	YXZTQLP	VARIABLE	TRAMMEL.SET TO SCALE STARTS-WITH HAND ON TRAMMEL INCLUDES-ALL MOTIONS NECESSARY TO MOVE TRAMMEL TO SCALE,POSITION FIRST POINT,LOOSEN LOCK
						SCREW, MOVE SECOND POINT ALONG TRAMMEL, POSITION POINT TO SCALE, VISUALLY CHECK, AND TIGHTEN LOCK SCREW
					2 09	ENDS—NITH MOVE TRAMMEL ASIDE CASE O1 SET 1—MAN TRAMMEL
					295	O2 SET 2-MAN TRAMMEL(TIME VALUE FOR TWO OPERATORS)

DATA SOURCE		QUAL ITY	SOURCE COOS	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	809	MAF	1078	MTLDUOI	152	DIVIDERS, USE TO SCRIBE 90-DEGREE ARC STARTS-WITH DIVIDERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE POINT OF DIVIDERS TO CENTERPOINT, POSITION SCRIBING POINT, SCRIBE 90-DEGREE ARC, MOVE DIVIDERS AWAY, AND VISUALLY CHECK WORK ENDS-WITH DIVIDERS IN HAND CONDITION-APPLICABLE TO SCRIBING ARC TO 16-INCH RADIUS
NF	809	MAF	1112	MTLTU01	328	TRAMMEL.USE TO SCRIBE 90-DEGREE ARC.ONE OPERATOR.36-INCH RADIUS STARTS-WITH SIDESTEP TO MOVE TRAMMEL TO WURK INCLUDES-ALL MOTICNS NECESSARY TO POSITION POINT TO PUNCH MARK.SIDESTEP TO SCRIBING END OF TRAMMEL.AND SCRIBE ARC ENDS-WITH SIDESTEP TO CENTER POINT
ΔF	81X	MAW	SWOEAHL	MACAAOI	55	AMPERAGE, ADJUST ON AC OR DC WELDING MACHINE STARTS—WITH REACH TO CONTROL INCLUDES—ALL MOTIONS NECESSARY TO GRASP CONTROL, LOCATE SETTING, APPLY PRESSURE, MUVE TO SETTING, CHECK SETTING AND RELEASE CUNTROL ENDS—WITH RELEASE CONTROL CONDITIONS—DIAL MOVED APPROXIMATELY 12 INCHES
NO	81X	DAP	LFAlW	MACCAO1	56	CONTROLS (HEAT), ADJUST ON WELDING MACHINE STARTS-WTIH REACH TO FIRST CONTROL INCLUDES-ALL MOTIONS NECESSARY TO TURN TWO CONTROL HANDLES TO NEW SETTINGS ENDS-WITH RELEASE SECOND CONTROL HANDLE CONDITIONS-CONTROL HANDLES TURNED APPROXIMATELY 45 DEGREES
NF	81X	MAĖ	2138	MACKOO1	93	KNOB.OPEN ON ACETYLENE TORCH TIP STARTS-WITH REACH TO TIP HANDLE INCLUDES-ALL MOTIONS NECESSARY TO OBTAIN TORCH TIP.FRCM HANGER, GET KNOB.LOOSEN, AND TURN KNOB TO OPEN VALVE ENDS-WITH RELEASE OF KNOB
AE	81X	, MAW	SwDE 4G1	MACMT01	74	MACHINE (WELDING), TURN ON DR OFF STARTS-WITH BEND TO SWITCH OR BUTTON INCLUDES-ALL MOTIONS NECESSARY TO BEND TO SWITCH OR BUTTON, ACTUATE SWITCH OR BUTTON, AND ARISE ENDS-WITH ARISE FROM BEND
AF	81X	MAW	SWDEAS1	MACVT01	69	VALVE(ACETYLENE AND DXYGEN), TURN OFF STARTS-WITH REACH TO ACETYLENE VALVE INCLUDES-ALL MOTICNS NECESSARY TO CLOSE ACETYLENE VALVE, REACH TO AND CLOSE DXYGEN VALVE ENDS-WITH RELEASE OF VALVE
NF	81X	MAF	1256	MC'L SC XX	VARIABLE 717 588	SLAG, CHIP WITH CHIPPING HAMMER, CHISEL, AND BRUSH STARTS-WITH SIMO REACH TO HAMMER AND CHISEL INCLUDES-ALL MOTIONS NECESSARY CHIP SLAG WITH HAMMER AND CHISEL, ASIDE HAMMER AND CHISEL, GET WIRE BRUSH, AND BRUSH OFF SLAG ENDS-WITH ASIDE BRUSH CONDITIONS-GENERALLY APPLICABLE TO REMOVAL JF SLAG AFTER BURNING OR CUTTING OPERATION CASE 01 FIRST LINEAR FOOT 02 EACH ADDITIONAL LINEAR FOOT(WITHJUT GET AND ASIDE TOOLS)

DATA SOURCE		QUALITY-	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	81X	MAF .	1251	MCLSKXX	VARIABLE	SCALE, KNOCK FROM WELD WITH HAMMER AND BRUSH STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO TAP WELD WITH HAMMER ONCE PER INCH TO LOOSEN SCALE, ASIDE HAMMER, GET BRUSH, AND BRUSH SCALE AWAY ENDS-WITH ASIDE BRUSH CASE OI FIRST LINEAR FOOT OF WELD
					301	02 EACH ADDITIONAL LINEAR FOOT OF WELD
·NO	81X	OA#	FH#1#\A	YCLSRXX	VARTABLE	SLAG,REMOVE WITH CHIPPING HAMMER STARTS-WITH GET TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL,STRIKE AND CHIP SLAG,CHECK SURFACE AND MOVE TOOL ASIDE ENDS-WITH RELEASE OF TOOL CONDITIONS-GENERALLY APPLICABLE TO REMOVING SLAG AFTER BURNING OR GOUGING OPERATION
		•			136 52	CASE O1 FIRST OR SINGLE INCH OF SLAG CHIPPED O2 EACH ADDITIONAL INCH OF SLAG CHIPPED
NO	81X	MAO	LHW1N2	MCLSSO1		SPATTER.SCRAPE PER INCH OF WELD STARTS-WITH SCRAPER POSITIONED FOR USE INCLUDES-ALL MOTIONS NECESSARY TO SCRAPE SPATTER FROM ONE INCH OF WELD ENDS-WITH ONE INCH OF WELD CLEANED
AA .	81X	MAA	OTLWSXX	MCLTCXX	VARIABLE 143 80	TIP, CLEAN WITH SANDPAPER, WELDING GUN STARTS-WITH GET SANDPAPER, TIP IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE SANDPAPER TO CLEAN WELDING GUN TIP ENDS-WITH ASIDE SANDPAPER CASE OI ROLLER TIP GUN OZ POINTER TIP GUN
NF	81X	MAF	1270	MCLTC03	224	TIP, CLEAN WITH EMERY CLOTH WRAPPED AROUND FILE, SPOT WELDER STARTS-WITH TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE EMERY TO CLEAN TWO ELECTRODE TIPS ENDS-WITH FILE AND EMERY IN HAND
FFO	81X	TBA	KWLPTSB	MC LTD01	728	TIP(ELECTRODE WELDER), DRESS STARTS WITH REACH TO GET DRESSING BOARD INCLUDES—ALL THE MOTIONS NECESSARY TO GET DRESSING BOARD, DRESS TIP TO A SMOOTH FINISH AND ASIDE BOARD ENDS—WITH ASIDE DRESSING BOARD
NO	81 X	MAC	LFAIR1	MGMPCOL	143	PART, CHECK FOR WARPAGE WITH 12-INCH SCALE STARTS-WITH REACH TO SCALE INCLUDES-ALL MOTIONS NECESSARY TO GET SCALE, BEND, POSITION SCALE TO PART, VISUALLY CHECK PART FOR WARPAGE, ARISE AND ASIDE SCALE ENOS-WITH RELEASE OF SCALE
FF0	81X	MAA	KWL SUAD	MJPCC01	546	CASLE(ELECTRODE HOLDER), CONNECT/DISCONNECT TO/FROM ARC WELDER STARTS-WITH REACH TO GET HOLDER CABLE [NGLUDES-ALL THE MOTIONS NECESSARY TO GET HOLDER, STOOP TO WELDER, INSERT CABLE INTO WELDER, ARISE, STOOP, GRASP AND REMOVE CABLE, ARISE ENDS-WITH HOLDER IN HAND CONDITIONS-INCLUDES TIME FOR BOTH CONNECT AND DISCONNECT

DATA SOURCE		QUALITY	SOURCE CODE	OWMSTOP ELEMENT		OPERATION/ELEMENT DESCRIPTION
Δ F	81X	мдд	636	MJ6EC01	350	ELECTRODE(TUNGSTEN), CHANGE IN TORCH STARTS-WITH TORCH AND ELECTRODE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO LOOSEN ELECTRODE SECURING NOT, SCREW OFF NOT, PALL NOT, REMCYE ELECTRODE, ASIDE TO WORKBENCHINT AND ELECTRODE), PICK UP NEW ELECTRODE ON WORKBENCH, INSERT ELECTRODE, GET SECUPING NOT FROM BENCH AND INSTALL ON TORCH TIP ENDS-WITH RELEASE OF NOT
AF.	81X	MΔW	SWDEAR 1	MJPFA01	94 .	FLAME, ADJUST ON HAND TORCH STARTS-WITH REACH TO KNOB ON OXYGEN VALVE INCLUDES-ALL MOTIONS NECESSARY TO TURN OXYGEN VALVE, TURN ACETYLENE VALVE KNOB, FOCUS EYES, ADJUST OXYGEN VALVE AND CHECK FLAME ENDS-WITH RELEASE VALVE
NO	81X	DAM	LHW1Z	MJPGP01	110	GOGGLES (BURNING), PUT ON AND REMOVE STARTS-WITH REACH TO GOGGLES ON TOP OF HEAD INCLUDES-ALL MOTIONS NECESSARY TO MOVE AND ADJUST GOGGLES OVER EYES; REACH TO GOGGLES AND MOVE THEM TO TOP OF HEAD ENDS-WITH RELEASE GOGGLES CONDITIONS-WELDING TORCH HELD IN ONE HAND WHILE PUTTING ON AND TAKING OFF GOGGLES
FFO _.	81X	маа	KWL SUT4	10AHQLF	954	HOSES(OXYGEN AND ACETYLENE), ATTACH AND REMOVE TO/FROM TORCH STARTS-WITH REACH TO TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL, GET HOSES, PLACE TO TORCH, TIGHTEN NUT TO
		• •				HOLD HOSE ON TORCH WITH WRENCH, LOOSEN YUI, REMCVE HOSES AND ASIDE TORCH ENDS-WITH ASIDE TOOL
NF	81X.	MAF	4012/13	MJPJP01	435	JACKET (WELDERS), PUT ON AND TAKE OFF STARTS-WITH JACKET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PUT JACKET IN, ZIP UP, UNZIP, AND REMOVE JACKET ENDS-WITH JACKET IN HAND
FFN	81X	M A A	KWLSUXX	MJPRCXX	VARIABLE	RODIWELDING), CHANGE IN ELECTRODE HOLDER STARTS-WITH REACH TO ELECTRODE HOLDER AND LEAD INCLUDES-ALL THE MOTIONS NECESSARY TO GET RUD HOLDER, GET ROD, INSTALL ROD IN HOLDER (HELD WITH CLAMP), ASIDE HOLDER AFTER USE
					161 85	ENDS-WITH ASIDE HOLDER CASE 01 CHANGE FIRST RPD J2 CHANGE EACH ADDITIONAL RODIOJES NOT INCLUDE GET AND ASIDE HOLDER)
AF	81X	MAA	640	MJPRRO1	83	REGULATOR, READJUST, TWO TANKS STARTS-WITH REACH TO REGULATOR INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP REGULATOR HANDLE AND TURN, ADJUST, REACH TO SECOND REGULATOR HANDLE, TURN HANDLE TO ADJUST, RELEASE HANDLE ENDS-WITH RELEASE HANDLE CONDITIONS-APPLICABLE TO ADJUSTING PRESSURE REGULATORS ON TWO OXY-ACETYLENE RELUTED TANKS
FFF	81X	MAA		MJPSP01	173	SHIFLD(WELDING), PUT ON AND REMOVE STARTS-WITH REACH TO PROTECTIVE SHIELD INCLUDES-ALL MOTIONS NECESSARY TO GET WELDERS PROTECTIVE SHIELD, PUT SHIELD ON AND LOWER COVER OVER FACE; AND REMOVE AND ASIDE SHIELD ENDS-WITH ASIDE SHIELD CONDITIONS-ODES NOT INCLUDE TIME FOR AUJUSTING HEACBAND

DATA Source		QÜALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	SPERATION/ELEMENT DESCRIPTION
A,F	81X	MAA -	261	MJP SRO1	76	SHIELD(WELDING), RAISE AND LOWER STARTS-WITH REACH TO HOOD(ON HEAD) [NCLUDES ALL THE MOTIONS NECESSARY TO GRASP AND LOWER HOOD(SHIELD)INTO POSITION TO WELD, RELEASE HOOD, REACH, GRASP, RAISE AND RELEASE HOOD ENDS-WITH RELEASE HOOD(SHIELD)
NF	81X	MAF	2685	MJPTD01	251	TIP(TORCH), DETACH BY HAND STARTS-WITH REACH TO TORCH INCLUDES-ALL MOTIONS NECESSARY TO GET TORCH, SCREW TIP OFF BY HAND, AND PLACE TIP ASIDE FNDS-WITH RELEASE OF TIP
NF	81X	MAF	3043	4JPTD02	104	TIP(ELECTRODE), DETACH FROM SPOTWELDER STARTS-WITH REACH TO TIP, HAMMER IN DITHER HAND INCLUDES-ALL MOTIONS NECESSARY TO TAP ELECTRODE TIP WITH HAMMER TO LOOSEN, AND REMOVE TIP
ŊF	81X	MAF	3345	MJPT[0]	121	ENDS-WITH TIP AND HAMMER IN HAND TIP(ELECTRODE), INSTALL ON SPOTWELDER STARTS-WITH TIP AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TIP TO ELECTRODE, POSITION, AND TAP WITH HAMMER ENDS-WITH HAMMER IN HAND
FFE	81X	MAA	GTLTAA1	MJPŤLO1	67	TORCH(ACETYLENE), LIGHT WITH FRICTION TYPE IGNITER STARTS-WITH TORCH IN HAND-GAS VALVE OPEN INCLUDES-ALL MOTIONS NECESSARY TO GET IGNITER, PLACE IGNITER TO TORCH, STRIKE IGNITER ONE TIME, AND ASIDE IGNITER ENDS-WITH RELEASE OF IGNITER
NF	81X	MAF	2358	MJPTRO1	119	TENSION, RELEASE ON OXY-ACETYLENE WELDING REGULATOR STARTS-WITH REACH TO HANDLE INCLIDES-ALL THE MOTIONS NECESSARY TO TURN REGULATOR HANDLE TO RELEASE TENSION, RELEASE HANDLE ENDS-WITH RELEASE HANDLE
NF	81X	MAF	2357	MJPVŢŒL	321	VALVE(OXY-ACETYLENE CYLINDER), TURN OFF STARTS-WITH WRENCH IN HAND, STANDING AT CYLINDER INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION WRENCH ON CYLINDER VALVE, TURN WRENCH FJUR TIMES(EIGHT INCH MOVE) TO TURN VALVE OFF
						ENDS-WITH VALVE TURNED OFF, WRENCH IN HAND ON VALVE
FFD	81X	TAA	KWLPTSA	MJPWP01	5206	WELDER(SPOT), PREPARE(ADJUST HEAT) STARTS-WITH HAND ON CONTROL DIALS INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST TEMPERATURE AND PRESSURE CONTROLS TO DESIRED JPERATING RANGE ENDS-WITH WELDER READY TO OPERATE-HANDS J4 CONTROL CONDITIONS-INCLUDES ALL NECESSARY ADJUSTMENTS AND PREHEAT TIME
FFD	81X	MAA	KWŁ SUTB	SJPTC01	669	TIP(OXY-ACETYLENE TORCH), CHANGE WITH WRENCH STARTS-WITH REACH TO OPEN TOOL BOX INCLUDES -ALL MOTIONS NECESSARY TO GET WRENCH AND TIP FROM OPEN TOOLBOX, PLACE IIP IN WORK AREA, GET TORCH, REMOVE TIP NUT, ASIDE TIP, GET NEW TIP, PLACE ON TORCH, TIGHTEN TIP NUT, ASIDE TORCH, AND ASIDE WRENCH ENDS-WITH RELEASE OF WRENCH

DATA	OCCUP=	YTI JAUÇ	SOURCE	DWMSTDP	TMU	OPERATION/ELEMENT DESCRIPTION
SOURCE		4022	CODE.	ELEMENT	VALUE	
Maa	atx	мяд	SWLEVWI	SJOTGXX	VARIABLE	TIP(ELECTRODE), GRIND STARTS-WITH REACH TO BENCH DRAWER INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN ORAWER, GET BOX OF ELECTRODE TIPS OUT OF DRAWER AND CLOSE DRAWER, TURN ON GRINDEP, GET TIP FROM BOX, POSITION TO GRINDING WHEEL, MOVE TIP TO GRIND, DIP TIP IN WATER AFTER GRINDING, EXAMINE TIP, REGRIND TIP WHEN REQUIRED, PLACE TIP IN BOX AND TURN OFF GRINDER, PLACE BOX OF TIPS ON BENCH ENDS-WITH PLACE BOX OF TIPS ON BENCH CASE OI GRIND FIRST OR SINGLE TIP OZ GRIND EACH ADDITIONAL TIP
					165	O3 REGRINO WHEN REQUIRED
ባር	91X	MAF	SJPTL01	SJPTL01	349	TORCH(DXY=ACETYLENE), LIGHT AND TURN OFF STARTS=NITH REACH TO TORCH INCLUDES=ALL MOTICNS NECESSARY TO OBTAIN TORCH FROM HANGER, OPEN ACETYLENE VALVE, GET IGNITER, LIGHT TORCH, AS IDE IGNITER, OPEN OXYGEN VALVE, ADJUST FLAME; AND TURN VALVES OFF ENDS=WITH ASIDE TORCH TO HANGER
NΔΔ	81X	MUA	OTLWSXX	SNFSWXX	VARIABLE	SPOT(OR SEAM), WELD STARTS-WITH GET GROUND CABLE INCLUDES-ALL MOTIONS NECESSARY TO ATTACH GROUND CABLE, PUT ON GLOVES, GET METAL AND POSITION FOR WELDING, GET WELDING GUN, WELD, ASIDE GUN, AND REMOVE GLOVES ENDS-WITH REMOVE AND ASIDE GROUND CABLE
					769	CASE OI WELD FIRST TWO INCH SEAM IN STAINLESS STEEL FOIL TO .004 INCH WITH ROLLER TIP GUN
	•				174	O2 EACH ADDITIONAL TWO INCH SEAM IN STAINLESS STEEL FOIL TO .004 INCH WITH ROLLER TIP GUN O3 WELD FIRST TWO SPOTS IN STAINLESS
					. 741	STEEL TO .010 INCH WITH POINTER TIP GUN 04 EACH ADDITIONAL SPOT IN STAINLESS
					50	STEEL TO .010 INCH WITH POINTER TIP
FFD	31X	ΜΔΔ	KWLSPXX	SNFWAXX	VARIABLE	WELD(SPOT), ACCOMPLISH STARTS-WITH REACH TO MAIN SWITCH INCLUDES-ALL THE MOTIONS AND TIME NECESSARY TO TURN ON MAIN SWITCH, PUT ON AND REMOVE APRON, GLOVES(LOOSE FIT), FACE SHIELD, REMOVE BOTH ELECTRODES, INSTALL ELECTRODES, ORESS TIP, TURN MACHINE ON, PREPARE SPOT WELDER (ADJUST HEAT), GET PART, WELD SPOT, ASIDE PART, TURN OFF MACHINE
					8306 89	ENDS-WITH REMOVE PROTECTIVE CLOTHING CASE O1 SPOT WELD FIRST OR SINGLE SPOT O2 SPOT WELD EACH ADDITIONAL SPOT WITH ONE TO THREE INCH SPACING
AAV	81X	AUM	OTLWSXX	SNFWSXX	VARIABLE	SPOT(OR SEAM), WELD ON SCIAKY STATIONARY WELDING MACHINE STARTS-WITH GET PART INCLUDES-ALL MOTIONS NECESSARY TO MOVE PART IN POSITION FOR WELDING, WELD SPOT OR SEAM, AND REMOVE PART ENDS-WITH ASIDE PART
					212	CASE OI WELD ONE SPOT ON MID-RANGE REPEAT CYCLE, ALUMINUM OF STEEL TO .090 INCH THICKNESS
					811	02 WELD FIRST TWO INCH SEAM, ALUMINUM 39 STEEL TO .050 INCH THICKNESS, MACHINE SPEED 20 INCHES PER MINUTE
					167	03 EACH ADDITIONAL TWO INCHES OF SEAM, ALUMINUM OR STEEL TO .050 INCH, MACHINE SPEED 20 INCHES PER MINUTE

DATA S OURCE		QUAL ITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VA LUE	OPERATION/ELEMENT DESCRIPTION
ΔE	31X	MAW	SWOEAMI	MOHTPOI	355	TANK, PUT ON HAND TRUCK STARTS-WITH REACH TO HAND TRUCK HANDLES INCLUDES-ALL MOTIONS NECESSARY TO GET HAND TRUCK, TILT TRUCK AND WALK THREE PACES TO MOVE TRUCK TO DESTRED POSITION, RELEASE THUCK, REACH TO TANK, TIP TANK TO SIDE, MUVE HAND TRUCK UNDER TANK, GET TRUCK HANDLES AND TILT TRUCK WITH LOAD TAKING TWO STEPS TO BALANCE HAND TRUCK ENDS-WITH TANK BALANCED ON HAND TRUCK
4 F	81%	MAW	SWDEAN1	MOHTRO1	126	TANK, REMOVE FROM HAND TRUCK STARTS—WITH RELEASE HANDLES OF HAND TRUCK INCLUDES—ALL MOTIONS NECESSARY IT TILL TANK, PULL HAND TRUCK FROM UNDER TANK AND SET TANK DOWN ENDS—WITH RELEASE TANK
FFD	8 t X	TAA	KWLPTSC	BPTSW01	68	SPOT, WELD STARTS = WITH MATERIAL IN POSITION TO WELD INCLUDES = ALL THE TIME NECESSARY TO WELD ONE SPOT WITH SPOT WELDER ENDS = MITH SPOT WELDED AND READY TO MOVE MATERIAL TO NEXT SPOT CONDITIONS = TIME IS NOT INCLUDED TO MOVE MATERIAL ON OR OFF SPOT
AF	81X	маа	604	MSUCA01	187	CYCLE DIALS (SPOT WELDING MACHINE), ADJUST STARTS-WITH REACH TO DIAL INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TURN FIRST DIAL, CHECK FOR PROPER SETTING, TURN "HOLD" DIAL AND CHECK FOR PROPER SETTING, TJRM "DEF"DIAL AND CHECK FOR PROPER SETTING, TURN IGNITION SWITCH ON, PELEASE SWITCH ENDS-WITH RELEASE IGNITION SWITCH
NAA	81x	MUA	OTLWSXX	SSUMS01	3995	MACHINE (WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS STARIS—WITH TURN AND WALK TO LEFT HAND PANEL INCLUDES—ALL MOTIONS NECESSARY TO ADJUST THREE DIALS, RETURN THREE PACES TO WELD POSITION, TURN AND WALK THREE PACES TO RIGHT HAND PANEL, ADJUST AIR PRESSURE, ADJUST ELECTRICAL CONTACT PRESSURE, RETURN TO WELD POSITION, ACTUATE "RAISE" SWITCH, GLEAN ELECTRODES, ACTUATE "LOWER" SWITCH, GET AIR HOSE AND BLOW OFF ELECTRODES, ASIDE AIR HOSE, GET TEST STRIPS, WELD THREE SPOTS, VISUALLY CHECK SPOTS, ASIDE STRIPS, GET TEST STRIPS AND WELD—THABANK, ASIDE STRIPS, GET TEST STRIPS AND WELD—THABANK, GET "TH STRIP", CARRY THREE PACES TO TENSION TESTER, PERFORM TENSION TEST ON EACH OF TWO MELDS—WITH SETUP AND TESTS CUMPLETE CONDITIONS—ALUMINUM OR STEEL TO .090 INCH THICKNESS

DATA Source		QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	81X	· MAA	OTLWSXX	SSUMS02	3461	MACHINE (WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM STARTS-WITH TURN AND WALK TO LEFT HAND PANEL INCLUDES-ALL MOTIONS NECESSARY TO ADJUST THREE
				:		DIALS, RETURN THREE PACES TO WELD POSITION; TURN TO RIGHT SIDE PANEL, ADJUST AIR PRESSURE AND ELECTRICAL CONTACT PRESSURE, TURN AND WALK ONE PACE TO RIGHT HAND PANEL, ADJUST MOTOR SPEED
					•	RHEOSTAT, RETURN TO WELD POSITION, CLEAN TOP AND BOTTOM WHEELS WITH SANDPAPER, WIPE WHEELS WITH CLOTH TO REMOVE DUST, TURN, GET TEST STRIPS, TURN, PLACE STRIPS TO WHEELS, WELD TWO INCH
	,					SEAM, VISUALLY CHECK SEAM, GET PLIERS, BEND EACH STRIP 90 DEGREES, ASIDE PLIERS, ATTACH CLAMPS, PERFORM SHEAR TEST, AND REMOVE CLAMPS ENDS—WITH ASIDE STRIP CONDITIONS—ALUMINUM OR STEEL TO .050 INCH
						THICKNESS
NO	81X	DAM	LHWIFI	MTPTIO1	119	TODL.INSERT AND REMOVE.AIR HAMMER STARTS-WITH REACH TO TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL.POSITION AND INSERT IN AIR HAMMER; REACH
		•		•		TO TOOL, DISENGAGE AND ASIDE TOOL ENDS-WITH RELEASE OF TOOL
FFD	810	MAA	KWL SUTE	MUPEGQ1	221	ELECTRODE(HELI-ARC WELDING),GRIND STARTS-WITH REACH TO SWITCH INCLUDES-ALL THE MOTIONS NECESSARY TO TURN ON
			••	•		PEDESTAL GRINDER, GRIND ELECTRODE, INSPECT TIP, TURN OFF GRINDER ENDS-WITH TURN OFF GRINDER
F,FD	810	MAA	KWL SUAA .	MJPMS01	303	MACHINE(ARC WELDING).SET UP STARTS-WITH STOOP TO WELDING MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO STOOP, TURN MACHINE ON.SET RANGE CONTROL DIAL FOR CORRECT HEAT RANGE.GET AND ATTACH GRUUND CLAMP TO WORK AND GROUND.REMOVE AND ASIDE CLAMP,
				•	•	ARISE FROM STCOP ENDS-WITH ARISE FROM STOOP
FFD	810	МДА	KWLSUAE	4JPPC01	293	POLARITY (ARC WELDING MACHINE), CHANGE STARTS-WITH BEND TO MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE AND EXCHANGE NEGATIVE AND POSITIVE LEADS ENDS-WITH ARISE FROM BEND
FFO	810	MAA	KWL SUXX	SJPECXX	VARIABLE	ELECTRODE (HELI-ARC WELDING) . CHANGE
						STARTS-WITH HOLDER IN HAND . INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND REMOVE CAP, ASIDE CAP, GET AND ASIDE COLLET AND ELECTRODE, PEMOVE AND ASIDE CUP, LOUSEN
			,			COLLET HOLDER, PLACE COLLET IN TORCH, PLACE ELECTRODE IN TORCH, SCREW IN CUP AND TIGHTEN,
					1100	SCREW CAP ON AND PLACE ELECTRODE TO WORK PIECE ENDS-WITH ELECTRODE IN POSITION TO WELD CASE OI REMOVE ELECTRODE OF ONE SIZE, REPLACE
			•		377	WITH ELECTRODE OF ANOTHER SIZE OZ REMOVE ELECTRODE AND REPLACE WITH ELECTRODE OF SAME SIZE
OL	810	MAF	SUPRC 01	SJPRC01	354	ROD(WELDING), CHANGE IN ELECTRODE HOLDER STARTS-WITH BREAK ARC AND MOVE ROD FROM WORK INCLUDES-ALL MOTIONS NECESSARY TO RAISE HOOD, OPEN CLAMP, REMOVE ROD FROM HOLDER, GET ROD,
						PLACE IN HOLDER, CLOSE CLAMP, MOVE RID OVER WURK, LOWER HODD, MOVE ROD TO WORK, AND STRIKE ARC
						ENDS-WITH ROD IN POSITION FOR WELDING

DATA Source		QUAL ITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
ΔE	810	MAW	SWOEAC 1	MNFEPO1	53	ELECTRODE, POSITION AND STRIKE ARC STARTS-WITH ELECTRODE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE AND POSITION ELECTRODE, FOCUS EYES AFTER LOWERING HODD, STRIKE ARC, MOVE AND POSITION ELECTRODE FOR ARC WELD ENDS-WITH ELECTRODE POSITIONED FOR WELD CONDITION-TIME TO LOWER HOOD NOT INCLUDED
FFD	810	EUA	RWHALOL	MNFWAXX		WELD.ACCOMPLISH.ARC WELD.PER INCH STARTS-WITH ROD IN WELDING POSITION.ARC STARTED INCLUDES-ALL MOTIONS NECESSARY TO FUSE-WELD ONE LINEAR INCH ENDS-WITH WELD COMPLETED.ROD POSITIONED TO MATERIAL
					467	CASE OI WELD ONE LINEAR INCH, ALUMINUM OR MAGNESIUM
					2080	OZ WELD ONE LINEAR INCH, STAINLESS STEEL, USE .0625 INCH ROD
NAA	810	MAA	SMFIMXX	SNFWMXX	VARTABLE	WELD(INERT GAS-ARC), MAKE STARTS-WITH REACH TO WELD TORCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND POSITION WELD TORCH TO PART, OBTAIN WELD KOD AND POSITION TO PART, FLIP HOOD DOWN WITH NOD OF HEAD, PLACE FOOT ON PEDAL AND DEPRESS, PLACE WELD ROD TO WELD POINT, PLACE TORCH TO WELD ROD AND WELD POINT, RELEASE FOOT PEDAL, AS IDE FOOT, AS IDE ROD TO BENCH, MOVE TORCH FROM PART, RAISE
						HOOD, ASIDE TORCH TO HOLDER ON BENCH ENDS-WITH ASIDE TORCH CONDITIONS-APPLIES TO LINDE HW-18 OR HW-20
•		•		-	•	WELDERS OR SIMILAR125 INCH THICK STEEL OR ALUMINUM-INERT GAS, METAL ARC
					1259	CASE OF FIRST OR SINGLE INCH-MOVE TURCH AND
					784	ROD 16 TIMES TO MAKE WELD OZ EACH ADDITIONAL INCH-MOVE TORCH AND
٠					578 408	ROD 16 TIMES TO MAKE WELD O3 TACK WELD—FIRST OR SINGLE SPUT=MOVE TORCH AND ROD TWO TIMES TO MAKE WELD O4 TACK WELD=EACH ADDITIONAL SPOT=MUVE TORCH AND ROD TWO TIMES TO MAKE WELD
AF	810	08W	151831	40HA801	L 93	ARC. BREAK AND MOVE TO NEXT WELD
	310	00**	151051		173	STARTS-WITH BREAK ARC AND MOVE ROD FROM WORK INCLUDES-ALL MOTIONS NECESSARY TO RAISE HOOD, SIDESTEP TO NEXT WELD, MOVE ROD OVER HORK, LOWER HOOD, MOVE ROD TO WORK, AND SCRATCH SURFACE TO STRIKE ARC ENDS-WITH ROD IN POSITION TO MAKE WELD
NO	811	MAO	LHW1R1	MACVOXX	VARIABLE	VALVES(BLOWPIPE OXYGEN AND ACETYLENE), OPEN AND CLOSE STARTS-WITH REACH TO OXYGEN VALVES INCLUDES-ALL MOTIONS NECESSARY TO SLIGHTLY OPEN OXYGEN VALVE, THEN REACH TO AND FULLY OPEN ACETYLENE VALVE; REACH TO OXYGEN VALVE, CLOSE, REACH TO ACETYLENE VALVE, AND CLOSE ENDS-WITH RELEASE VALVE
					. 74 76	CASE 01 UPEN TWO VALVES O2 CLOSE TWO VALVES
NO	811	МАО	LHw102	MCLHC01		HOLES(TORCH TIP), CLEAN STARTS-WITH MOVE CLEANER TO TIP INCLUDES-ALL MOTIONS NECESSARY TO POSITION CLEANER IN HOLE, MOVE BACK AND FORTH TO CLEAN HOLE AND REMOVE CLEANER FROM HOLE, SIX TIMES ENOS-WITH DISENGAGE CLEANER FROM SIXTH HOLE

DATA Source		QUAL ITY	SOURCE	DWMSTDP ELEMENT	TMU	OPERATION/ ELEMENT DESCRIPTION
NO	811	DAM	LHWIEZ	MCLHC02	62	HOLE(HIGH PRESSURE TIP), CLEAN STARTS-WITH MOVE TAPERED CLEANER TO HOLE INCLUDES-ALL MOTIONS REQUIRED TO POSITION CLEANER IN HOLE AND ROTATE CLEANER IN HOLE ENDS-WITH CLEANER MOVED FROM HOLE
NO	811	MAC	LHW1S1	MJPBL01	120	BLOWPIPE, LIGHT STARTS-WITH REACH TO LIGHTER IN HIP POCKET INCLUDES-ALL MOTIONS NECESSARY TO GET LIGHTER, POSITION IT TO BLOWPIPE TIP, STRIKE LIGHTER, MOVE LIGHTER FROM FLAME, AND RETURN LIGHTER TO POCKET ENDS-WITH RELEASE LIGHTER
NAA	811	MAA	SWLTJO1	MJPTRO1	635	TIP(ELECTRODE=GAS), REPLACE STARTS=WITH REACH TO GAS CAP ON TORCH INCLUDES=ALL THE MOTIONS NECESSARY TO GRASP AND LOOSEN GAS CAP(THREE TURNS), REPLACE CAP AND GRASP ELECTRODE TIP, DISENGAGE TIP FROM GAS LENS COLLET BODY AND ASIDE TIP, PICK UP PROPER TIP AND INSTALL IN COLLET, GRASP GAS CAP AND TURN DOWN THREE TURNS, TIGHTEN CAP, RELEASE CAP ENDS=WITH RELEASE CAP CONDITIONS=FOR LINDE HW=18 AND HA=20 WELDING TIPS
NO	811	MAO	LHW101	MOHBPO1	45	BLOWPIPE, POSITION TO METAL STARTS-WITH BLOWPIPE IN PIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BLOW- PIPE TO LEFT HAND AND USE TWO HANDS TO POSITION TIP OF BLOWPIPE TO POINT OF CUT ENDS-WITH BLOWPIPE IN POSITION TO CUT
A F	813	MAA	608	.MSUTS01	129	THYRATON CONTROLS (SPOT WELDING MACHINE), SET STARTS-WITH REACH TO FIRST CONTROL INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION POINT AND CHECK READING FOR FIRST CONTROL, SET RANGE SWITCH AND CHECK RANGE, ADJUST PER- CENT CONTROL POINTER, RELEASE CONTROL ENDS-WITH RELFASE PERCENT CONTROL
AF	814	MAA	8	SJPPPOL	2 80	PRESSURE, PUMP IN BLOW TORCH TANK STARTS—WITH SIMO REACH TO TANK AND PUMP HANDLE INCLUDES—ALL MOTIONS NECESSARY TO LOUSEN. VALVE SEAT BY TURNING PUMP HANDLE, HOVE HANDLE OF AND DOWN EIGHT STROKES TO BUILD PRESSURE, AND TIGHTEN VALVE SEAT ENDS—WITH RELEASE OF TORCH AND HANDLE
NF	814	MAF	1257	MNFSAXX	VARIABLE 46	SOLDER, APPLY TO SEAM OR JOINT, SHEET METAL STARTS—WITH SCLOER AND IRON IN HAND INCLUDES—ALL MOTIONS NECESSARY TO MOVE SOLDER AND IRON TO JOINT, MOVE SOLDER AND INCLUDED JOINT TO SPREAD SOLDER, MOVE SOLDER AWAY, AND MOVE IRON AWAY ENDS—WITH SOLDER AND IRON IN HAND CONDITIONS—TIME FOR HEATING IRON AND SOLDER NOT INCLUDED CASE OI FIRST LINEAR INCH
					12	OZ EACH ADDITIONAL LINEAR INCH #1THJUT LIFTING IRON AND SOLDER FROM ADRN
AF	816	MAA	146	MAC FEOL	78	FEED(FLAME CUTTING MACHINE), ENGAGE TO START AND TURN OFF STARTS-WITH REACH TO SWITCH BUTTON INCLUDES-ALL THE MOTIONS NECESSARY IT TURN SWITCH BUTTON ON AND OFF, MOVE CLUTCH LEVE? TO ENGAGE ENDS-WITH TURN OFF SWITCH CONDITIONS-RADIGRAPH TYPE MACHINE

DATA SOUPCE		YTI JAUC	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	816	MAA	3418	MJPTAOL	152	TORCH(DXY-ACETYLENE-CUTTING), ADJUST FOR CUTTING BEVEL STARTS-WITH SIMO REACH TO TIP OF TORCH AND WING NUT
				•		INCLUDES—ALL THE MOTIONS NECESSARY TO GRASP AND HOLD TORCH WITH RIGHT HAND, LOOSEN WING NUT WITH LEFT HAND, PUSH TORCH TIP TO DESIRED DE— GREE, TIGHTEN WING NUT, RELEASE TORCH ENDS—WITH WING NUT TIGHTENED, TORCH RELEASED
ΝF	816	MAA	2577	MSUBP01	145	BAR(RADIUS), PLACE IN AND REMOVE FROM FLAME CUTTING MACHINE STARTS-WITH REACH TO RADIUS BAR INCLUDES-ALL MOTIONS NECESSARY TO GET RADIUS BAR, MOVE TO MACHINE, POSITION IN SLUT; GET RADIUS BAR, REMOVE BAR FROM MACHINE, AND ASIDE BAR ENDS-WITH RELEASE OF BAR
AF	316	MAA	147	MSUMPO1	91	MACHINE(FLAME CUTTING), PLACE ON RING STARTS-WITH REACH TO MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP THE MACHINE, LIFT AND PLACE MACHINE ON RING, RELEASE MACHINE, GET RADIUS BAR, POSITION RADIUS BAR IN PUNCH MARK, RELEASE MACHINE ENDS-WITH RELEASE MACHINE CONDITIONS-RADIGRAPH TYPE MACHINE
Ν F	816	MAA	3344	MSURPO1	128	RING(FLAME CUTTING MACHINE), POSITION ON PLATE TO BURN CIRCLES STARTS-WITH RING IN HAND, REACH TO PLATE INCLUDES-ALL THE MOTIONS NECESSARY TO GET PLATE, PLACE PLATE FOR BURNING, RELEASE PLATE AND REACH BACK TO PLATE ENDS-WITH HAND RETURNED TO PLATE CONDITIONS-RADIGRAPH TYPE MACHINE-MOVE PLATE
ΔF	816	маа	145	MSUSA01	65	SPEED DIAL(FLAME CUTTING MACHINE), ADJUST STARTS=WITH REACH TO DIAL INCLUDES=ALL THE MOTIONS NECESSARY TO GRASP AND TURN DIAL TO SPEED LETTER, POSITION DIAL TO LINE, RELEASE DIAL ENDS=WITH RELEASE DIAL CONDITIONS=RADIGRAPH TYPE MACHINE
ΔF	316	МАА	151	4SUTPO1	103	TORCH ARM(FLAME CUTTING MACHINE), POSITION FOR BURNING CIRCLES OR STRAIGHT LINES STARTS-WITH REACH TO ADJUSTMENT KNOB INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST ARM TO CHALK LINE, CHECK POSITION OF ARM AND MACHINE BY MOVING IN CIRCLE BY HAND, RELEASE MACHINE ENDS-WITH RELEASE MACHINE CONDITIONS-RADIGRAPH TYPE MACHINE
٧F	816	MAA	1288	MSUWR01	155	WHEEL(FLAME CUTTING MACHINE), REMOVE STARTS-WITH REACH(SIMO)TO MACHINE AND WING NUT INCLUDES-ALL MOTIONS NECESSARY TO HOLD MACHINE WITH LEFT AND LOOSEN WING NUT WITH RIGHT HAND, RELEASE MACHINE WITH LEFT HAND AND GRASP LEFT LEVER, MOVE LEVER AND REMOVE WHEEL, LOWER MACHINE, RELEASE WHEEL ASIDE FNDS-WITH RELEASE WHEEL CONDITIONS-RADIGRAPH TYPE MACHINE

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
AF	82X	MAA	MOE-201	4040101	586	COVER(RACEWAY BASE SECTION), INSTALL STARTS-WITH COVER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE THE COVER TO THE BASE SECTION, INSERT LEADING
						CORNER OF COVER INTO CHANNEL, HOLD CORNER IN CHANNEL AND INSERT TRAILING EDGE OF SAME SIDE INTO CHANNEL AND HOLD, RELEASE LEADING CORNER WITH RIGHT HAND AND GRASP AND HOLD CENTER WITH PALM AND THUMB, RELEASE TRAILING CORNER WITH LEFT HAND AND GET SCREWORIVER FROM BELT KIT, INSERT SCREWORIVER BETWEEN COVER AND BASE SECTION OF OPPOSITE SIDE AND HOLD LEVERAGE, RELEASE COVER WITH RIGHT HAND, GET HALLET FROM
						BELT KIT, HAMMER SECOND EDGE INTO CHANNEL, RETURN MALLET TO BELT KIT, REMOVE AND ASIDE SCREMORIVER ENDS-WITH RETURN SCREWDRIVER TO BELT KIT CONDITIONS-BASE SECTION AVERAGE FOUR FEET LONG
AF	82X	MAA	MDE-251	MDALC 01	64	LUGITERMINAL), CONNECT TO SWITCH STARTS-WITH SWITCH ASSEMBLY IN HAND(LEFT)
						INCLUDES—ALL THE MOTIONS NECESSARY TO REACH RIGHT HAND TO RACEWAY AND GRASP A CONDUCTOR, MOVE CONDUCTOR(WITH LUG TERMINAL)AND INSERT IN SWITCH, PUSH CLAMP SCREW WITH THUMB OF LEFT HAND, RELEASE CONDUCTOR ENOS—WITH SMITCH ASSEMBLY IN LEFT HAND
AF	82X	MAA	MDE-3Q1	'MDAS101	65	SUCKET(LAMP), INSERT IN REFLECTOR FITTING STARTS-WITH SUCKET IN LEFT HAND, RIGHT HAND
						HOLDING ASSEMBLY INCLUDES—ALL THE MOTIONS NECESSARY TO MOVE SOCKET TO FITTING AND POSITION WITH RIGHT
					•	HAND, HOLD SOCKET TO FITTING AND REACH TO FITTING WITH LEFT HAND, GPASP AND HOLD FITTING AND SOCKET BETWEEN THUMB AND FOREFINGER, RELEASE HOLD WITH RIGHT HAND, REGRASP SOCKET AND FITTING AND ALIGN AND PRESS TOGETHER WITH BOTH HANDS, RELEASE RIGHT HAND, HOLD WITH LEFT ENDS—WITH LEFT HAND HOLDING ASSEMBLY CONDITIONS—LEECRAFT SOCKET
NF	82X .	MAF	802/804	MJPFUXX	VARIABLE	FISHTAPE (ELECTRICAL), UNWRAP FROM AND WRAP ON
						REEL,PER FOOT STARTS-WITH REEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET END OF TAPE,PULL OUT SIX-INCH LENGTH,RELEASE TAPE,GET END,AND PULL OUT SIX-INCH LENGTH;AND GET FISHTAPE REEL,AND WRAP TAPE ON REEL
					217 144	ENDS-WITH FISHTAPE IN HAND CASE O1 FIRST FOOT 02 EACH ADDITIONAL FOOT
NF	82X	MAF	847	MJPOPOL	187	OILER, PREPARE FOR FILLING STARTS-WITH REACH TO SLIDE COVER ON OILER INCLUDES-ALL MOTICNS NECESSARY TO MOVE COVER ASIDE, PICK UP FUNNEL, PLACE IN OILER, GET OIL CONTAINER, MOVE CONTAINER INTO POSITION TO POUR, MOVE CONTAINER AWAY, MOVE FUNNEL AWAY, AND REPLACE COVER
	e r					ENDS-WITH RELEASE OF COVER CONDITIONS-TIME FOR POURING OIL NOT INCLUDED. APPLICABLE TO OILERS SUCH AS THOSE FOUND ON ELECTRIC FANS AND BLOWERS
NF	82X	MAF	2396	10T2qLP	161	SWITCH, TUPN OFF OR ON, BRANCH LIGHTING CIRCUIT STARTS-WITH REACH TO PANEL DOOR INCLUDES-ALL MOTIONS NECESSARY TO OPEN DOOR, LOCATE SWITCH, TURN SWITCH OFF OR ON, AND CLOSE DOOR ENDS-WITH RELEASE OF DOOR CONDITIONS-DOES NOT INCLUDE TIME TO LOOK AT PANEL SCHEMATIC TO DETERMINE SWITCH NUMBER

DATA Source		QUAL ITY	SOURCE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	82X	MAF	876	SNFTAOL	443	TAPE, APPLY TO WIRE SPLICE STARTS—WITH REACH TO ROLL OF TAPE INCLUDES—ALL MOTIONS NECESSARY TO OBTAIN A 10—INCH LENGTH OF TAPE FROM ROLL, ASIDE ROLL OF TAPE, POSITION TAPE TO WIRE SPLICE, WRAP SPLICE SIX REVOLUTIONS, AND PRESS TAPE TO SPLICE ENDS—WITH RELEASE OF TAPED SPLICE
FF0	82X	MAA	KALEDIO	SNFTR01	157	TIE(SPOT).REMOVE STARTS-WITH REACH TO GET TOOLS(CUTTER) INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTER WITH RIGHT HAND.GRASP WIRE WITH LEFT HAND.CUT LINE WITH CUTTER(TWO CUTS).REMOVE LACING.ASIDE CUTTER AND LACING ENDS-WITH ASIDE CUTTER
FFD	82X	MAA	KALEWAX	SNFWCXX	1200 138	WIRE BUNDLE, COIL AND TIE STARTS—WITH REACH TO WIRE BUNDLE INCLUDES—ALL THE MOTIONS NECESSARY TO GET WIRE BUNDLE, COIL WIRE, GET AND UNWIND ONE FOOT OF LACING CORO, TIE COIL OF WIRE BUNDLE WITH THREE KNOTS, CUT LACING, ASIDE CUTTER, ASIDE WIRE BUNDLE COIL ENDS—WITH COIL AS IDE CONDITIONS—USE WHEN WIRE BUNDLE IS COILED AND SECURED TO EXISTING WIRE BUNDLE OR COILED FOR STORAGE—SPOT TIE IN THREE PLACES CASE OI COIL AND TIE FIRST OR ONLY THREE FEET OF WIRE O2 COIL EACH ADDITIONAL THREE FEET OF WIRE
FFD	82X	MAA	KALEA13	SNFWT01	1838	WIRE BUNDLE, TAPE AND TIE STARTS-WITH REACH TO ROLL OF TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROLL OF TAPE, GET END OF TAPE AND UNROLL, CUT TAPE, ASIDE TAPE ROLL AND CUTTER, WRAP TAPE ON WIRE BUNDLE, GET AND UNWIND ONE FOOT OF LACING CORD, TIE TWO KNOTS ON TAPE AROUND WIRE BUNDLE, CUT CORD AND ASIDE CUTTER ENDS-WITH ASIDE CUTTER CONDITIONS-WRAP 24 INCHES OF INSULATING TAPE ON SIX INCHES OF WIRE BUNDLE, TIE IN TWO PLACES
NF	82X	MAF	828	MOH8 (01	914	BOX(JUNCTION),INSTALL ON CONDUIT STARTS=WITH GET LOCKNUT INCLUDES=ALL MOTIONS NECESSARY TO INSTALL LOCKNUT ON END OF CONDUIT(TEN THREADS),GET JUNCTION BOX,PLACE BOX ON END OF CONDUIT,GET SECOND LOCKNUT,PLACE ON END OF CONDUIT,TURN DOWN SIX THREADS BY HAND,GET SCREWORIVER,GET HAMMER,PLACE SCREWORIVER TO LOCK NUT INSIDE BOX,STRIKE SCREWORIVER WITH HAMMER UNTIL NUT IS TIGHT,AND ASIDE SCREWDRIVER AND HAMMER ENDS=WITH RELEASE OF SCREWORIVER AND HAMMER CONDITION=TIME TO REMOVE KNOCKOUT PLUG FROM JUNCTION BOX NOT INCLUDED
NF 2	82X	MAF	848	MOHPROL	90	PAPER.REMOVE FROM CONDUCTOR AFTER DUTER INSULATION HAS BEEN STRIPPED STARTS-WITH REACH TO PAPER INCLUDES-ALL MOTIONS NECESSARY TO UNTWIST AND REMOVE PAPER WRAPPING FROM CONDUCTOR ENOS-WITH ASIDE PAPER
NF	82X	MAF	910	MOH NA 01	70	WIRE, ALIGN FOR FORMING IN ELECTRICAL BOX STARTS—WITH REACH TO WIRE INCLUDES—ALL MOTIONS NECESSARY TO APPLY PRESSURE AND MOVE INTO ALIGNMENT IN BOX.ALSO INCLUDES VISUAL CHECK OF ALIGNMENT ENDS—WITH RELEASE OF WIRE

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	82X	MAF	911/913	монивхх	VARIABLE 99 140	WIRE, BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX STARTS-WITH REACH TO WIRE INCLUDES-ALL MOTIONS NECESSARY TO MAKE 90- DEGREE BEND BY HAND AND TO CHECK ALIGNMENT ENDS-WITH BEND COMPLETED CASE 01 BEND NO.10 WIRE 02 BEND NO.4 TO NO.2 WIRE
NF	82X	MAF	946	MOHWRO1	1611	WRAPPING(PAPER), REMOVE FROM COIL OF WIRE STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND TO COIL OF WIRE, CUT PAPER WRAPPING, ASIDE KNIFE TO TOOL POUCH, LIFT COIL ON EDGE, AND UNWRAP PAPER FROM COIL ENDS-WITH ARISE
FFD	8 2X	MAA	KALEA14	SOHPP01	1393	PLUG/RECEPTACLE, PLACE IN PLASTIC BAG STARTS-WITH REACH TO GET BAG INCLUDES-ALL THE MOTIONS NECESSARY TO GET BAG, OPEN AND PLACE PLUG/RECEPTACLE IN BAG, GET LACING CORD AND UNWIND ONE FOOT, TIE BAG IN TWO PLACES, CUT CORD, AS IDE SPOOL AND CUTTER ENDS-WITH AS IDE CUTTER
NF	82X	MAF	880	MTLBCO1	253	BANDING, CUT ON REEL OF WIRE, CABLE, OR SIMILAR STARTS—WITH REACH TO SCREWDRIVER INCLUDES—ALL MOTIONS NECESSARY TO GET SCREWDRIVER FROM BELT KIT, INSERT SCREWDRIVER UNDER BANDING, STRETCH BANDING, RETURN SCREWDRIVER TO KIT, GET PLIERS, CUT BANDING, AND RETURN PLIERS TO BELT KIT ENDS—WITH RELEASE OF PLIERS
NF .	82X	MAF	2660	MTLCR01	175	CONDUIT, REAM END, ONE INCH DIAMETER, HAND REAMER STARTS-WITH REAMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE REAMER IN END OF CONDUIT, REAM AND REMOVE REAMER ENDS-WITH REAMER IN HAND
NF	82X	MAF	800	MTLFU01	68	FISHTAPE (ELECTRICAL), USE, FEED INTO CONDUIT STARTS-WITH FISHTAPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PUSH ONE FOOT OF FISHTAPE INTO CONDUIT ENDS-WITH HAND ON FISHTAPE
NF	82X	MAF	805	MTLFU02	48	FISHTAPE(ELECTRICAL).USE.DISENGAGE TWO TAPES STARTS-WITH SIMO REACH TO TWO FISHTAPES INCLUDES-ALL MOTIONS NECESSARY TO SEPARATE TWO FISHTAPES BY UNHOOKING ENDS-WITH ASIDE FISHTAPES
NF .	82X	MAF	819	MTLHC01	85	HOLE, CUT IN CARDBOARD CONTAINER WITH KNIFE STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT HOLE APPROXIMATELY FOUR INCHES IN DIAMETER IN CARDBOARD CONTAINER AND ASIDE CARDBOARD DISC ENDS-WITH KNIFE IN HAND CONDITION-APPLICABLE TO OPENING COIL OF ELECTRICAL WIRE OR SIMILAR
AF	82X	MAF	254	MTLHRO1	134	HICKEY, REPOSITION ON CONDUIT STARTS-WITH STOOP TO CONDUIT INCLUDES-ALL MOTIONS NECESSARY TO ROTATE CONDUIT, POSITION HICKEY TO BEND MARK, AND ARISE ENDS-WITH HAND ON HICKEY HANDLE

DATA SOURCE		QUAL ITY	SOURCE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
NF	82X	MAF	839	MTLLC01	83	LUG(TERMINAL), CRIMP TO WIRE STARTS-WITH CRIMPING TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET TERMINAL LUG WITH CRIMPING TOOL AND CRIMP LUG TO WIRE ENDS-WITH ASIDE TOOL CONDITION-TIME TO PLACE LUG ON WIRE NOT INCLUDED
NF	82X	MAF ,	895	MTLLPO1	96	LOOP, PLACE ON TERMINAL AND CLOSE WITH PLIERS STARTS-WITH MOVE LOOP TO TERMINAL, PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION LOOP ON TERMINAL AND USE PLIERS TO CLOSE LOOP ON TERMINAL ENDS-WITH PLIERS IN HAND CONDITIONS-TIME FOR INITIAL BENDING OF LOUP NOT INCLUDED. APPLICABLE TO NU. 8 OR SMALLER WIRE.
NF	82X	MAF	871	MTLS801	95	SPLICE, BEND PARALLEL TO CONDUCTOR WITH PLIERS STARTS-WITH PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND TWISTED WIRE SPLICE PARALLEL TO CONDUCTOR ENDS-WITH PLIERS IN HAND CONDITION-APPLICABLE TO NO.8 OR SMALLEK WIRE
NF	82X	MAF	834	MTLSFOI	413	SPLICE, FORM WITH PLIERS, PIGTAIL SPLICE STARTS—WITH PLIERS IN HAND, WIRES POSITIONED FOR TWISTING INCLUDES—ALL MOTIONS NECESSARY TO PLACE PLIERS ON WIRES AND TWIST TO FORM SPLICE ENDS—WITH PLIERS IN HAND CONDITIONS—APPLICABLE TO SPLICING ELECTRICAL FIXTURE LEADS
NF	82X	MAF	2699	MTLTCOL	343	THREAD, CUT IN CONDUIT STARTS-WITH THREADER STARTED ON CONDUIT INCLIDES-ALL THE MOTIONS NECESSARY TO MOVE HANDLE, SET RATCHET AND MOVE HANDLE TO CUT ONE THREAD ENDS-WITH ONE THREAD CUT CONDITIONS-MAKE 1/5 REVOLUTION PER STROKE
NF	82X	MAF	921	MTLWD01	192	WIRE, DISCONNECT FROM FISHTAPE AFTER PULLING STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT TAPE WITH KNIFE, ASIDE KNIFE, REMOVE AND ASIDE TAPE, GET PLIERS, AND CUT WIRE ENDS-WITH ASIDE PLIERS
NF	82X	MAF	750	STLCBXX	726 1092 745 1131 791 1226 1205	CONDUIT, BEND WITH HICKEY STARTS—WITH GET HICKEY INCLUDES—ALL MOTICNS NECESSARY TO STODP TO CONDUIT, PLACE HICKEY ON CONDUIT, POSITION HICKEY TO BEND POINT, ARISE, PLACE FOUT ON CONDUIT, BEND CONDUIT, REPOSITION HICKEY AS NECESSARY, COMPLETE BEND, STOOP, AND REMOVE HICKEY FROM CONDUIT ENDS—WITH ARISE AND ASIDE HICKEY CASE 01 BEND 1/2 INCH RIGID CONDUIT 45 DEGREES 02 BEND 1/2 INCH RIGID CONDUIT 45 DEGREES 03 BEND 3/4 INCH RIGID CONDUIT 45 DEGREES 04 BEND 3/4 INCH RIGID CONDUIT 45 DEGREES 05 BEND 1 INCH RIGID CONDUIT 45 DEGREES 06 BEND 1 INCH RIGID CONDUIT 45 DEGREES 07 BEND STUB OFFSET IN RIDGID CONDUIT

DATA SOURCE		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
FFD	82X	MAA	KALEWSX	STLPCXX	VARIABLE	PLUG(COAXIAL).CUT FROM CABLE STARTS-WITH REACH TO CUTTERS INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTERS.GET CABLE, POSITION CUTTERS(PLIERS)TO CABLE AND CUT PLUG FROM CABLE, ASIDE PLUG AND CUTTERS
					195 133	ENDS-WITH ASIDE PLUG/CUTTERS CASE 01 CUT FIRST OR SINGLE PLUG FROM CABLE 02 CUT EACH ADDITIONAL PLUG FROM CABLE
ŊF	82X	MAF	754	STLTBXX	VARTABLE	TUBING(ELECTRICAL METALLIC), BEND WITH MANUAL BENDER STARTS=WITH GET BENDER INCLUDES=ALL MOTIONS NECESSARY TO STOOP TO BENDER, PLACE BENDER ON ELECTRICAL METALLIC TUBING(EMT), POSITION BENDER TO BEND POINT, ARISE, PLACE FOOT ON TUBING TO HOLD, BEND TUBING, STOOP, REMOVE BENDER, AND ARISE ENDS-WITH ASIDE BENDER
				* -	519 541 791	CASE 01 BEND UP TO 1 INCH EMT 45 DEGREES 02 BEND UP TO 1 INCH EMT 90 DEGREES 03 BEND STUB OFFSET IN UP TO 1 INCH EMT (MAKE TWO 45-DEGREE BENDS).
NF	82X	MAF	860	MTPAP01	108	ARM(RAM),PULL TO FREE ANVIL, HYDRAULIC CONDUIT BENDER STARTS-WITH BEND AND REACH TO RAM ARM
				•		INCLUDES—ALL MOTIONS NECESSARY TO HOLD RAM JACK HOUSING WITH ONE HAND AND PULL RAM ARM WITH OTHER HAND ENDS—WITH RELEASE RAM ARM AND HOUSING AND ARISE
NF	82X	MAF	758	MTPCBXX	VARIABLE	CONDUIT.BEND WITH HYDRAULIC BENDER STARTS-WITH STOOP TO CONDUIT BENDER
	•	•		• • •		INCLUDES—ALL MOTIONS NECESSARY TO GET HANDLE, PUMP HANDLE TO BEND CONDUIT, SHIFT CONDUIT IN BENDER AS NECESSARY, AND RELEASE HANDLE WHEN BEND IS COMPLETED ENDS—with ARISE FROM STOOP
		•				CONDITIONS-OOES NOT INCLUDE INSTALLATION IN OR REMOVAL FROM BENDER
					1975 2920 2810 4256 5170 8976 12435 14216 28153	CASE 01 BEND 1 1/4 INCH CONDUIT 45 DEGREES 02 BEND 1 1/4 INCH CONDUIT 90 DEGREES 03 BEND 1 1/2 INCH CONDUIT 45 DEGREES 04 BEND 1 1/2 INCH CONDUIT 90 DEGREES 05 BEND 2 INCH CONDUIT 45 DEGREES 06 BEND 2 INCH CONDUIT 90 DEGREES 07 BEND 2 1/2 INCH CONDUIT 90 DEGREES 08 BEND 3 INCH CONDUIT 90 DEGREES 09 BEND 4 INCH CONDUIT 90 DEGREES
AF	82X	MAA	MDE-3J	MWH SMO1	120	SPLICE(CENTER), MAKE STARTS-WITH ONE WIRE IN EACH HAND INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE END OF WIRE IN RIGHT HAND TO SPLICE POINT IN WIRE HELD BY LEFT HAND, TWIST END OF WIRE HELD BY RIGHT HAND AROUND OTHER WIRE TO MAKE
						ELECTRICALLY TIGHT, RELEASE WIRES ENDS-WITH RELEASE WIRE CONDITIONS-ODES NOT INCLUDE TAPING OR SOLDER- ING

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFO	82X	MAA	KALEW39	SWHST01	1076	SPLICE(CCAXIAL CABLE), INSTALL TO SHIELDED WIRE STARTS-WITH REACH TO WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND KNIFE, CUT AND STRIP INSULATION, GET AND POSITION BARREL TO WIRE END, PUSH SHIELDING BACK, POSITION INNER BARREL TO WIRE END, GET AND PLACE TAPED SHIELD OVER INNER BARREL WITH HAND, GET OUTER BARREL AND PLACE OVER INNER BARREL WITH HAND, GET PLIERS, POSITION ON BARRELS, ALIGN BARRELS, GET CRIMPERS, CAIMP BARRELS, ASIDE CRIMPERS AND WIRE ASSEMBLY ENDS-ASIDE CRIMPERS AND WIRE ASSEMBLY
FFD	82X	M	KALEA05	SWH SMO1	2367	SPLICE(TWO WIRES), MAKE WITH STAKE-ON PLIERS STARTS-WITH REACH TO WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND STRIPPERS, STRIP ONE END OF TWO WIRES, ASIDE STRIPPERS, GET STAKE-ON PLIERS, GET SPLICE, PLACE SPLICE ON WIRE ENDIONE WIRE), PLACE PLIERS ON SPLICE AND CRIMP, PALM PLIEPS, GET, MEASURE AND CUT SPAGHETTI AND INSTALL OVER SPLICE, GET SECOND WIRE, STRAIGHTEN AND PLACE IN SPLICE, CRIMP SPLICE, PULL WIRES TO CHECK SPLICE, ASIDE CRIMPERS, SLIDE SPAGHETTI OVER SPLICE, UNWIND ONE FOOT OF LACING CORD, TIE KNOT ON EACH SIDE OF SPLICE AND OVER SPAGHETTI, CUT CORD, ASIDE CUTTER ENDS-WITH ASIDE CUTTER
		•				CONDITIONS-NON-SHIELDED WIRE
FFD	82X	MAA	KALEDO5	SWHSR01	1 <u>5</u> 1	SPLICE, REMOVE STARTS-WITH REACH TO CUTTER INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTER, GRASP WIRE WITH OTHER HAND, MAKE FIRST CJT, MOVE CUTTER TO SECOND POINT AND CUT WIRE, ASIDE CUTTER, RELEASE WIRE ENDS-WITH ASIDE CUTTER
NF	821	MAF	853	MBMCP01	1513	POLE, CLIMB TO LOWER CROSSARM, APPROXIMATELY SO FEET STARTS-WITH REACH TO POLE INCLUDES-ALL MOTIONS NECESSARY TO CLIMB POLE TO LOWER CROSSARM USING CLIMBING HOOKS ENDS-WITH CLIMB COMPLETED CONDITIONS-NO TIME INCLUDED FOR FASTENING GR UNFASTENING SAFETY BELT
NF	821	MAF	852	MB MC P 0 2	686	POLE,CLIMB FROM LOWER TO UPPER CROSSARM STARTS-WITH GET HOLD ON POLE INCLUDES-ALL MOTIONS NECESSARY TO UNHOOK SAFETY BELT,CLEAR BELT FROM POLE,CLIMB THREE STEPS USING CLIMBING HOOKS,STEP ON LOWER CROSSARM,HOOK SAFETY BELT AROUND POLE,CLIMB THREE ADDITIONAL STEPS,AND POSITION SAFETY BELT ENDS-WITH CLIMB COMPLETED
NF	821	MAF	850	MBMPC01	402	POSITION, CHANGE HORIZONTALLY ON POLE STARTS-WITH REACH FOR NEW HOLD ON POLE INCLUDES-ALL MOTIONS NECESSARY TO DISENGAGE CLIMBING HOOK, MOVE AROUND POLE, SINK HOOK IN POLE, GET NEW HOLD, AND REPOSITION BELT ENDS-WITH POSITION CHANGED CONDITIONS-APPLICABLE TO MOVING UP TO 180 DEGREES AROUND POLE

DATA Source	OCCUP- AT ION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	HAF	2407	S8 MPC 01	5843	POLE, CLIMB TO AND DESCEND FROM LOWER CROSSARM STARTS-WITH BEND TO POLE CLIMBERS INCLUDES-ALL MOTIONS NECESSARY TO PUT ON POLE CLIMBERS, ARISE PUT ON SAFETY BELT, CLIMB APPROXIMATELY 30 FEET UP POLE, HOOK SAFETY BELT AROUND POLE, REMOVE HANDLINE FROM SAFETY BELT AND HOOK ON CROSSARM; REMOVE HANDLINE, HOOK ON BELT, REMOVE BELT FROM POLE, DESCEND POLE, REMOVE SAFETY BELT, AND REMOVE POLE CLIMBERS ENDS-WITH ASIDE CLIMBERS
NF	821	MAF	716	MCLSC01	335	SHEATHING (LEAD CABLE), CLEAN BY SCRAPING STARTS-WITH SCRAPER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE SCRAPER TO CABLE AND CLEAN THREE SQUARE INCHES ENDS-WITH SHEATHING CLEANED CONDITION-CLEANING IS PREPARATORY TO FLUX APPLICATION FOR SPLICING
NF	821	MAF	2411/12	MJPSP01	546	SLEEVES (RUBBER LINEMAN'S), PUT ON AND TAKE OFF STARTS—WITH REACH TO STORAGE POUCH INCLUDES—ALL MOTIONS NECESSARY TO UNFASTEN SNAPS ON POUCH, REMOVE SLEEVES FROM POUCH, PLACE SLEEVE STRAP OVER BACK OF NECK, AND PLACE ARMS IN SLEEVES; AND REACH TO FIRST SLEEVE, REMOVE, REACH TO SECOND SLEEVE, REMOVE, ROLL SLEEVES, PLACE SLEEVES IN POUCH, AND CLOSE SNAPS ON POUCH ENDS—WITH RELEASE OF POUCH
NF	821	MAF	769	SNFCI01	1411	CONNECTOR(SOLDERLESS), INSTALL, SPLIT BOLT TYPE STARTS-WITH REACH TO CONNECTOR INCLUDES-ALL MOTIONS NECESSARY TO REMOVE NUT FROM CONNECTOR, PLACE SPLIT BOLT OVER FIRST
:			·			WIRE, START NUT ON BOLT, GET SECOND WIRE AND SLIDE INTO CONNECTOR, GET WRENCH FROM BELT KIT, TURN NUT WITH WRENCH, GET SECOND WRENCH FROM BELT KIT, PLACE ON BOLT TO HOLD, TIGHTEN NUT, AND RETURN EACH WRENCH TO BELT KIT ENDS-WITH RELEASE OF SECOND WRENCH
NF	821	MAF	701	MOHAT 01	2477	ANCHOR (AND ROD ASSEMBLY), INSTALL IN HOLE AND EXPAND ANCHOR STARTS-WITH REACH TO ASSEMBLY ON TRUCK INCLUDES-ALL MOTIONS NECESSARY TO REMOVE ASSEMBLY FROM TRUCK, CARRY ASSEMBLY SIX PACES TO HOLE, PLACE ASSEMBLY IN HOLE AND POSITION. RETURN TO TRUCK, GET TAMPING BAR, RETURN TO HOLE, USE TAMPING BAR TO EXPAND ANCHOR, AND RETURN TAMPING BAR TO RACK ON TRUCK ENDS-WITH RELEASE OF BAR CONDITIONS-ASSEMBLY WEIGHS 44 POUNDS.TIME TO BACKFILL AND TAMP HOLE NOT INCLUDED. HOLE IS APPROXIMATELY SEVEN FEET DEEP.
٧F	821	MAF	933	MOHBRO1	283	BELTING.REMOVE FROM LEAD SHEATHED CABLE STARTS-WITH REACH TO CUT END OF BELTING INCLUDES-ALL MOTIONS NECESSARY TO UNWRAP EIGHT REVCLUTIONS OF BELTING INSULATION FROM CABLE EMDS-WITH BELTING IN HAND CONDITION-TIME TO CUT BELTING NOT INCLUDED
ŊF	821	MAF	775	MOHC 901	202	CUTOUT(FUSED), OPEN OR CLOSE ON POLE WITH DISCONNECT STICK STARTS-WITH REACH TO STICK ON HANDLINE INCLUDES-ALL MOTIONS NECESSARY TO GET LOOP ON HANDLINE, LIFT OVER END OF STICK, MOVE STICK TO EYE IN SWITCH, HOOK STICK IN EYE, PULL SWITCH TO OPEN OR PUSH TO CLOSE, MOVE HOOK OUT OF EYE, AND MOVE STICK BACK TO HANDLINE ENDS-WITH RELEASE OF STICK CONDITIONS-TIME FOR CLIMBING AND DESCENDING POLE NOT INCLUDED

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	2764	MOHERO1	359	EQUIPMENT, RAISE OR LOWER ON POLE WITH HANDLINE STARTS-WITH REACH TO HANDLINE INCLUDES-ALL MOTIONS NECESSARY TO RAISE OR LOWER EQUIPMENT ATTACHED TO HANDLINE WITH HAND OVER HAND MOTIONS ENDS-WITH EQUIPMENT RAISED OR LOWERED CONDITIONS-NO TIME INCLUDED FOR ATTACHING OR REMOVING EQUIPMENT FROM HANDLINE OR FOR CLIMBING OR DESCENDING POLE-APPLICABLE TO TOOLS, TOOL BAG, MATERIAL, ETC. WITH ENW TO 15 POUNDS RAISED TO OR LOWERED FROM HEIGHT OF 30 FEET
NF	821	MA F	934	MOHFRO1	95	FILLER, REMOVE AND CUT, LEAD SHEATHED CABLE STARTS-WITH REACH TO FILLER, KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PULL FILLER OUT APPROXIMATELY ONE FOOT AND CUT WITH KNIFE ENDS-WITH FILLER AND KNIFE IN HAND
NF	821	MAF	820	моннто1 .'	257	HOOD(RUBBER INSULATOR), INSTALL ON ENERGIZED LINE STARTS-WITH REACH TO INSULATOR HOOD IN BAG INCLUDES-ALL MOTIONS NECESSARY TO GET INSULATOR FROM BAG, CHANGE POSITION ON POLE, SINK CLIMBING HOOK INTO POLE, MOVE HOOD TO INSULATOR, AND PLACE HOOD OVER INSULATOR ENOS-WITH RELEASE OF INSULATOR CONDITION-TIME FOR CLIMBING POLE NOT INCLUDED
NF	821	MAF	821	MOHHPO1	324	HOSE (RUBBER), PLACE ON ENERGIZED LINE STARTS-WITH REACH TO HOSE IN BAG INCLUDES-ALL MOTIONS NECESSARY TO GET HOSE, CHANGE POSITION ON POLE, SINK CLIMBING HODK INTO POLE, MOVE HOSE TO WIRE, AND PUSH HOSE DOWN WIRE TO PROVIDE PROTECTION DURING ENSUING WORK ENDS-WITH RELEASE OF HOSE CONDITION-TIME FOR CLIMBING POLE NOT INCLUDED. HOSE APPROXIMATELY FIVE FEET LONG.
NF	821	MAF	702	MTFAA01	759	ANCHOR, ASSEMBLE TO ROD STARTS-WITH REACH TO ANCHOR IN RACK ON TRUCK INCLUDES-ALL MOTIONS NECESSARY TO REMOVE ANCHOR FROM TRUCK, GET ROD, SCREW ANCHOR ONTO ROD, GET WIRE CUTTERS FROM BELT KIT, CUT FOUR TIE WIRES, REPLACE CUTTERS IN BELT ENDS-WITH RELEASE OF CUTTERS CONDITIONS-ANCHOR WEIGHS 28 POUNDS-1"X10° ROD WEIGHS 16 POUNDS
NF	821	MAF	856	4TLP001	157	PIKE, DRIVE INTO POLE, APPROXIMATELY 20 FEET ABOVE GROUND STARTS-WITH PIKE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LIFT PIKE, PUSH INTO POLE, AND WEDGE PIKE AGAINST GROUND ENDS-WITH RELEASE OF PIKE CONDITION-PIKE WEIGHS APPROXIMATELY 20 POUNDS
NF .	821	MAF	854	MTLPRO1	415	POLE, ROTATE WITH CANT HOOK STARTS-WITH REACH TO CANT HOOK INCLUDES-ALL MOTIONS NECESSARY TO GET HOOK, OBSERVE POLE TO ESTIMATE AMOUNT OF TURN REQUIRED, ROTATE POLE WITH HOOK, CHECK POSITION, ROTATE POLE, CHECK POSITION, STOOP, REMOVE CANT HOOK FROM POLE, AND ARISE ENDS-WITH ASIDE CANT HOOK CONDITIONS-RESISTANCE TO TURN IS APPROXIMATELY 40 POUNDS ENW.

DATA SOURCE		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	817	STLSD01	6 09	STEP(POLE). DRIVE INTO POLE WITH HAMMER STARTS-WITH REACH TO POLE STEP INCLUDES-ALL MOTIONS NECESSARY TO GET HAMMER. DRIVE STEP INTO POLE, ASIDE HAMMER, GET WRENCH, AND TURN STEP TO ALIGN ENDS-WITH ASIDE WRENCH
FFO	823	TAA	KALEA09	101LHWS	7306	JACK/PLUG(INTERPHONE), INSTALL STARTS-WITH REACH TO GET TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER AND POSITION TO JACK SLOT, BREAK INNER PART OF JACK LOOSE, DISENGAGE INNER PART FROM SHELL, OPEN VISE, PLACE RECEPTACLE IN VISE
						AND TIGHTEN, GET AND PLUG IN SOLDERING IRJN, ASIDE IRON TO HOLDER, GET EXTENSION CORD AND KNIFE, CUT AND REMOVE OUTER COVERING AT ENO OF CORD, ASIDE KNIFE, GET STRIPPERS AND STRIP FOUR WIRES, ASIDE STRIPPERS, GET SOLDERING IRON AND TIN EACH WIRE END, ASIDE IRON AND CORD, GET PLIERS AND GRASP WIRE, MOVE WIRE TO AND PLACE IRCN, SOLDER EACH WIRE IN RECEPTACLE, ASIDE IRON
						AND REACH(SIMO)TO VISE HANDLE AND CABLE-OPEN VISE AND REMOVE CABLE-GET STRING-LOOP STRING ON CABLE AND PULL TIGHT-PLACE KNOT ON HOUK. MOVE SHELL TO RECEPTACLE AND FIT TOGETHER. GET SCREWDRIVER AND TIGHTEN SHELL TO RECEPTA— CLE-ASIDE SCREWDRIVER.JACK/PLUG AND CABLE ENDS WITH ASIDE JACK/CABLE
EED	073	MAA	KALED 09	SWHJRO1	2376	CONDITIONS-FOUR-WIRE EXTENSION CORD JACK/PLUG(INTERPHONE), REMOVE
FFD	823	, MAR	NALLUGY.	Janono		STARTS-WITH REACH TO GET JACK AND PLIERS(SIMO) INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND MOVE PLIERS AND JACK TO WORK AREA, GRASP JACK WITH PLIERS, GET SCREWORIVER, LOOSEN SHELL FROM INNER PART, ASIDE SCREWORIVER, REMOVE INNER PART(RECEPTACLE) FROM SHELL, ASIDE SHELL, PLIERS AND RECEPTACLE, OPEN VISE, PLACE RECEPTACLE IN
					•	VISE AND TIGHTEN, GET SOLDERING IRON, PLACE IN HOLDER, PLUG IN, GET PLIERS, GRASP WIRE WITH PLIERS, GET SOLDERING IRON, UNSOLDER FOUR WIRES, ASIGE IRON, STRAIGHTEN WIRES, DISENGAGE WIRES, ASIDE PLIERS AFTER FOURTH WIRE IS DISENGAGED, UNPLUG SOLDERING IRON, LOOSEN VISE, REMOVE AND
					·	ASIDE RECEPTACLE ENDS-WITH ASIDE RECEPTACLE CONDITIONS-FOUR-WIRE EXTENSION CORD
AF	824	MAA	MOE-3Y	MDALIOI	103	LAMP(FLUCRESCENT), INSTALL IN LAMP HOLDER STARTS-WITH LAMP IN HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE LAMP AND POSITION FIRST END TO LAMP HOLDER, POSITION SECOND END TO HOLDER, MOVE EACH END TO SEAT, TURN LAMP TO LOCK, RELEASE LAMP ENDS-WITH RELEASE LAMP IN HOLDER
AF	824	MAA	MDE=4M2	MDAPIOI	72	PANEL(ELECTRICAL METER).INSTALL STARTS-WITH PANEL IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE METER PANEL TO CHASSIS.POSITION PANEL AND ALIGN SCREW HOLES.CHECK ALIGNMENT ENDS-WITH CHECK ALIGNMENT CONDITIONS-4X8 INCH PANEL
AF	824	MAA	MDE-4M2	MDAPRO1	42	PANEL(ELECTRICAL METER), REMOVE STARTS-WITH LEFT HAND HOLDING METER PANEL AT CHASSIS INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO PANEL WITH RIGHT HAND, GRASP AND REMOVE PANEL, RELEASE RIGHT HAND, TURN PANEL WITH LEFT HAND TO EXPOSE WIRING ENDS-WITH WIRING EXPOSED, PANEL IN HAND
						CONDITIONS-4X8 INCH PANEL

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
ΔF	824	MAA	MDE-3R1	SDALIGI	524	LEADS(LAMPSOCKET), INSERT THROUGH GROMMET STARTS-WITH REACH TO GET LAMP ASSEMBLY INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP LAMP ASSEMBLY AND TURN WITH RIGHT HAND, REACH TO FIRST WIRE LEAD WITH LEFT HAND, MOVE WIRE TO GROMMET AND INSERT LEAD THROUGH GRUMMET, RELEASE WIRE, TURN LAMP ASSEMBLY 90 DEGREES AND REACH TO WIRE END THROUGH GROMMET, GRASP END AND PULL WIRE THROUGH GROMMET WITH CARE, RELEASE WIRE, TURN LAMP 90 DEGREES, REACH TO END OF SECOND WIRE, MOVE WIRE TO GROMMET AND INSERT IN GROMMET, RELEASE WIRE, TURN LAMP 90 DEGREES, GRASP END OF SECOND WIRE AND PULL THROUGH GROMMET WITH CARE, INSPECT GROMMET SEATING, AS IDE LAMP ASSEMBLY ENDS-WITH LAMP AS IDE CONDITIONS-INCANDESCENT LAMP-RUBBER GROMMET
ŇF	824	MAF	712	MOHC [0 1	132	CABLE, INSERT END IN BOX CONNECTOR STARTS-WITH REACH TO END OF CABLE INCLUDES-ALL MOTIONS NECESSARY TO POSITION END OF CABLE TO CONNECTOR, GET END OF CABLE WITH OTHER HAND, AND PULL CABLE INTO BOX ENDS-WITH RELEASE OF CABLE CONDITION-APPLICABLE TO BX, ROMEX, OR SIMILAR
ΔF	824	MAA	MDE⊸4D		50	WIRE, INSERT THROUGH CLIP IN RACEWAY STARTS-WITH WIRE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE WIRE THROUGH CLIP WITH RIGHT HAND, GRASP END WITH LEFT HAND AND PULL WIRE THROUGH RACEWAY, GUIDE WIRE WITH RIGHT HAND ENDS-WITH WIRE THROUGH RACEWAY(10 INCHES)AND HELD BY BOTH HANDS
,FFD	825	МАА	KALEA17	SCPC[0]	1781	CLAMP, INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD STARTS-WITH REACH TO GET CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO GET CLAMP, MOVE TO PLIERS AND GRASP, TWIST PLIERS TO SHAPE CLAMP, ASIDE PLIERS, OPEN CLAMP, GET WIRE BUNDLE, PLACE CLAMP ON BUNDLE, CLOSE CLAMP, GET PLIERS AND FORM CLAMP ON BUNDLE, ASIDE PLIERS AND GET SCREWORIVER AND PLACE IN CLAMP HOLE, PLACE CLAMP AND WIRE BUNDLE TO HOLE, PUT SCREW IN HOLE, PUT ON NUT, GET WRENCH AND TIGHTEN NUT, ASIDE TOOLS, CHECK CLAMP FOR SECURITY ENDS-WITH CLAMP CHECKED, TOOLS ASIDE CONDITIONS-SECURE BUNDLE TO BULKHEAD AND SIMILAR
FFO	825	MAA	KALED17	SCPCR01		CLAMP(ECP), REMOVE FROM WIRE BUNDLE STARTS-WITH REACH TO SCREWDRIVER INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER, PALM, GET WRENCH, PLACE SCREW DRIVER IN SCREW SLOT AND WRENCH ON NUT, LOOSEN SCREW, REMOVE NUT, ASIDE SCREWDRIVER AND WRENCH, GET PLIERS, SQUEEZE SCREW FROM CLAMP, PALM PLIERS, REMCVE SCREW FROM CLAMP, PALM SCREW, GRASP AND SPREAD CLAMP, REMOVE CLAMP FROM WIRE BUNDLE, ASIDE CLAMP, SCREW AND PLIERS (SIMO) ENDS-WITH CLAMP, SCREW AND PLIERS ASIDE

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DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFO	825	MAA	KALED18	SCPCROZ	1026	CLAMP, REMOVE FROM BULKHEAD STARTS-WITH REACH TO TOOLS INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER AND WRENCH, LOOSEN SCREW AND NUT HOLDING CLAMP TO BULKHEAD, ASIDE TOOLS, REMOVE AND ASIDE NUT, PULL CLAMP AND CABLE AWAY FROM BULKHEAD, REMOVE SCREW FROM CLAMP HOLE, PUT NUT BACK ON SCREW, RUN DOWN WITH FINGERS ENDS-WITH NUT ON SCREW CONDITIONS-APPLIES ONLY TO CLAMPS REMOVED FOR ACCESS AND LEFT ON WIRE BUNDLE
FFD	825	MAA	KALEA18	SCPWC01	1274	WIRE BUNDLE, CLAMP TO BULKHEAD STARTS-WITH REACH TO CLAMP AND NUT(SIMO) INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE SCREW AND NUT FROM CLAMP, POSITION CLAMP ALREADY ON BUNDLE TO MOUNTING HOLE, INSERT SCREW AND PUT NUT ON SCREW, GET WEENCH AND SCREWDRIVER, RUN DOWN AND TIGHTEN NUT, PALM TOOLS, CHECK CLAMP FOR SECURITY, ASIDE TOOLS ENDS-WITH ASIDE TOOLS CONDITIONS-APPLIES ONLY TO CLAMPS REMOVED FOR ACCESS AND LEFT ON WIRE BUNDLE
FFD	\$25 	МΔΔ	KALEW33	SWHWR01	1596	WIRE/MIRE BUNDLE, ROUTE IN AIRCRAFT STARTS-WITH REACH TO WIRE/WIRE BUNDLE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE OR WIRE BUNDLE, MOVE TO WORK AREA AND PUSH END INTO POSITION, BEND WIRE TO POSITION, INSERT WIRE/WIRE BUNDLE THROUGH OBSTRUCTION, GRASP END OF WIRE/WIRE BUNDLE, FEEL FOR END, GRASP AND PULL THROUGH LOOP, BEND WIRE, PULL WIRE/WIRE BUNDLE THROUGH OBSTRUCTION, GET AND UNWIRE ONE FOOT OF LACING CORD, TIE WIRE/WIRE BUNDLE IN TWO SPOTS, CUT CORD, ASIDE CUTTER ENDS-WITH KNOT TIED(TWO); CUTTER ASIDE CONDITIONS-PER FOOT ROUTED-USE WHEN ROUTING A BUNDLE OR WHEN ROUTING A WIRE ALONG EXISTING BUNDLE
FFD	8 2 5	MAA	KALEW43	SWHWTOL	1296	WIRE BUNDLE, TIE TO TOMBSTONE STARTS-WITH REACH TO LACING CORD INCLUDES-ALL THE MOTIONS NECESSARY TO GET LACING CORD, UNWIND ONE FOOT, SECURE WIKE BUNDLE TO TOMBSTONE AND TIE IN TWO PLACES, CUT LACING CORD AND ASIDE CUTTER ENDS-WITH ASIDE CUTTER, TIE FINAL KNOT
NF	829	MAF	809	MOHFIXX	70 115	FUSE(ELECTRICAL), INSTALL STARTS-WITH FUSE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO INSTALL FUSE IN HOLDER ENDS-WITH RELEASE OF FUSE CASE 01 CARTRIDGE TYPE FUSE, FERRULE CONTACT, 3-60 AMPERE 02 CARTRIDGE TYPE FUSE, KNIFE BLADE CONTACT, 61-600 AMPERE 03 PLUG TYPE FUSE, 15-30 AMPERE
NF	829	MAF	3266	MOH SRO1	144	STARTER (FLUORESCENT), REPLACE IN FIXTURE STARTS-WITH REACH TO STARTER INCLUDES-ALL MOTICNS NECESSARY TO REMOVE STARTER, TRANSFER STARTER TO OTHER HAND, GET NEW STARTER HELD IN OTHER HAND, AND INSTALL STARTER ENDS-WITH RELEASE OF STARTER CONDITIONS-NO TIME INCLUDED FOR TESTING STARTER, STARTER IN UNRESTRICTED LOCATION.

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ ELEMENT DESCRIPTION
NF .	829	МДБ	705/6/7	STLBRXX	VARIABLE 1340 1587 1826	BULB, REPLACE WITH BULB CHANGER STARTS-WITH CHANGER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LIFT CHANGER TO BULB, POSITION ON BULB, REMOVE BULB FROM SOCKET, LOWER CHANGER, REMOVE BULB FROM CHANGER, STOOP, GET NEW BULB FROM CARTON, PLACE OLD BULB IN CARTON, ARISE, PLACE BULB IN CHANGER, LIFT BULB AND CHANGER TO SOCKET, SCREW BULB IN SOCKET, AND LOWER CHANGER FROM BULB ENDS-WITH BULB CHANGER IN HAND CONDITIONS-APPLICABLE TO CHANGING OVERHEAD INCANDESCENT BULBS TO 750 WATTS CASE OL CHANGE BULB WITH 9-FOOT CHANGER OZ CHANGE BULB WITH 18-FOOT CHANGER
NF	844	MAF	1303	MACMDOI	5 93	MIXTURE (DRY AGGREGATE), DUMP INTO MIXER FROM HOPPER STARTS—WITH REACH TO DUMP HANDLE INCLUDES—ALL MOTIONS NECESSARY TO MOVE DUMP HANDLE TO OPEN HOPPER, GET VIBRATOR HANDLE, VIBRATE HOPPER BY HAND TO EMPTY CONTENTS, AND CLOSE HOPPER ENDS—WITH RELEASE OF HANDLE CONDITIONS—APPLICABLE TO DUMPING 3 1/2 CUBIC FEET OF MIXED ORY AGGREGATE
NF	844	MAF	1362	SOHCA01	462	CHUTE(EXTENSION).ATTACH TO TRANSIT MIXER STARTS-WITH REACH TO EXTENSION INCLJOES-ALL MOTIONS NECESSARY TO REMOVE EXTENSION FROM STORAGE ON TRUCK, TURN, WALK 10 PACES TO REAR OF TRUCK, AND ATTACH EXTENSION CHUTE TO MIXER ENDS-WITH RELEASE OF EXTENSION CONDITIONS-EXTENSION WEIGHS APPROXIMATELY 40 POUNDS
NF	844	MAF	1368/70	MTLCC01	3699	C INCRETE, CHIP WITH CHISEL AND HAMMER, SEVEN CUBIC INCHES STARTS-WITH CHISEL AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO STRIKE CHISEL WITH HAMMER TO REMOVE SEVEN CUBIC INCHES OF CONCRETE AND USE CHISEL TO PUSH AWAY DEBRIS ENOS-WITH TOOLS IN HAND
NF	844	MAF	1415	MTPHE01	273	HANDLES (GUIDE), EXTEND OR RETRACT, CONCRETE SAW STARTS-WITH REACH TO HANDLE LOCK KNOB INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN LOCK KNOB, PULL HANDLE OUT, TIGHTEN LOCK KNOB, SIDESTEP TO OTHER HANDLE, LOOSEN LOCK KNOB, PULL HANDLE OUT, AND TIGHTEN LOCK KNOB ENDS-WITH RELEASE OF KNOB
ΝF	844	MAF	1412	MTPHP01	272	HAMMER(PNEUMATIC). POSITION FOR DRILLING AND REMOVE AFTER DRILLING STARTS-WITH BEND TO HAMMER INCLUDES-ALL MOTIONS NECESSARY TO PICK UP HAMMER AND MOVE TO SPOT FOR ORILLING; AND TO REMOVE HAMMER AND ASIDE AT FLOOR LEVEL ENDS-WITH ARISE FROM BEND CONDITIONS-HAMMER WEIGHS APPROXIMATELY 90 POUNOS
NF	844	Må F	1497	MTP SAO1	177	SPEED.ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW STARTS-WITH RELEASE OF HANDLES OF SAW INCLUDES-ALL MOTIONS NECESSARY TO TAKE ONE STEP BACKWARD, STUDP, TURN KNOB THREE REVOLUTIONS, ARISE, AND WALK ONE PACE FORWARD ENDS-WITH GRASP HANDLES

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	844	MAF.	1498/99	MTPUE01	342	UNIT(SELF-PROPELLING), ENGAGE AND DISENGAGE, CONCRETE SAW STARTS-WITH REACH TO HANDLES INCLUDES-ALL MOTIONS NECESSARY TO HOLD HANDLES AND ACTUATE LEVER WITH FOOT MOTION TO ENGAGE UNIT; AND TO HOLD HANDLES AND ACTUATE LEVER WITH FOOT MOTION TO DISENGAGE UNIT ENDS-WITH HAND ON HANDLES
NAA	845	MAA	XXDAAQL	MPAPSXX	VARIABLE	PAINT, SPRAY ON AIRCRAFT SURFACE, PER TEN SQUARE FEET STARTS-WITH SPRAY GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SPRAY TEN SQUARE FEETIFOUR PASSES PER SQUARE FOOT), MOVE HOSE, AND MOVE TO ADJACENT AREA FOR PAINTING ENDS-WITH OPERATOR READY TO PAINT ADJACENT AREA
					998 593	CASE OI SPRAY TEN SQUARE FEET WITH EPUXY PAINT OR ACRYLIC LACQUER, SPRAY WITH FOUR INCH FAN OZ SPRAY TEN SQUARE FEET WITH EPUXY OR ACRYLIC PRIMER, SPRAY WITH SIX-INCH FAN
NAA	845	MUA	JPAASRA	SPAAIOL	26690	ARROW(RESCUE), INSTALL ON AIRCRAFT STARTS-WITH REACH TO GET MEASURING DEVICE INCLUDES-ALL THE MOTIONS NECESSARY TO MARK
				•		POSITION TO PLACE TEMPLATE, TEMPORARY TAPE TEMPLATE TO AIRCRAFT, MASK OUTLINE TWO TIMES, PAINT YELLOW AND RESCUE BLACK, TWO COATS EACH, REMOVE MASK, USE WORKSTAND ONE TIME TO PAINT AND ONE TIME TO MASK ENDS-WITH DESCENT FROM WORKSTAND, ASIDE PAINT AND TEMPLATES
	,					CONDITIONS—ARROW TO 24 INCHES.FOUR STEP ASCENT/DESCENT OF WORKSTAND.
NA A	845	муд	ANZAAQL	SPAII01	80610	INSIGNIA (NATIONAL-STAR), INSTALL ON AIRCRAFT STARTS-WITH REACH TO GET MEASURING DEVICE INCLUDES-ALL THE MOTIONS NECESSARY TO MARK LOCATION OF STAR, GET STAR AND POSITION ON AIRCRAFT, APPLY TEMPORARY TAPE TO HOLD TEMPLATE ONCE FOR EACH COLOR, MASK DNCE FOR EACH COLOR AND REMOVE, PAINT THREE COLORS, TWO COATS EACH, WAIT ONE MINUTE BETWEEN COATS, ATTACH AND RE- MOVE BARRIER PAPER, USE WORK STAND DNCE PER COLCR, ONCE PER MASK AND ONCE PER UMMASK ENDS-WITH DESCENT FROM WORKSTAND, ASIDE PAINT AND TEMPLATE CONDITIONS-PAINT EIGHT SQUARE FEET WITH SPRAY GUN.30-40 INCH INSIGNIA, FOUR STEP ASCENT/DESCENT OF WORKSTAND.
NF	853	MAF	2278	SOHWROI	200	WRAPPING (PAPER), REMOVE FROM 100-POUND BUNDLE OF ASPHALT STATS-WITH GET BUNDLE OF ASPHALT INCLUDES-ALL MOTIONS NECESSARY TO PLACE BUNDLE OF ASPHALT ON SIDE, GET AXE, CUT PAPER WRAPPING ON ASPHALT, ASIDE AXE, AND TEAR PAPER TO EXPOSE ASPHALT ENDS-WITH RELEASE OF PAPER
ŊF	853	MAF	997	HTLMS01	776	M(X(HOT BITUMINOUS), SPREAD WITH RAKE, PER SQUARE YARD STARTS-WITH RAKE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE RAKE BACK AND FORTH THROUGH MIX TO SPREAD ENDS-WITH RAKE IN HAND

DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	UPERATION/ELEMENT DESCRIPTION
NF .	853	MAF	2279	STLAB01	350	ASPHALT, BREAK INTO PIECES WITH AXE, 100-POUND BUNDLE STARTS-WITH REACH TO AXE INCLUDES-ALL MOTIONS NECESSARY TO USE AXE TO BREAK ASPHALT INTO PIECES FOR FEEDING INTO ASPHALT KETTLE ENDS-WITH ASIDE AXE
NF	86X	MAF	2081/82	MACSL01	992	SCAFFOLD (PORTABLE), LOCK AND UNLOCK WHEELS STARTS-WITH TURN TO WHEEL INCLUDES-ALL MOTIONS NECESSARY TO WALK TWO PACES, TURN TO WHEEL, USE FOOT TO ACTUATE LEVER TO LOCK WHEEL; TURN, WALK TWO PACES, STOOP, GET LEVER, PULL TO RELEASE WHEEL, AND ARISE, NOTE- THIS MOTION SEQUENCE IS REPEATED FOR EACH OF FOUR WHEELS. ENDS-WITH WHEELS UNLOCKED
						CONDITIONS—NO TIME INCLUDED FOR MOVING SCAFFOLD
NF	86 X	MAF	1397	MITFMO1	922	FRAME(DOOR), MEASURE AND CENTER IN OPENING STARTS-WITH RULE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MEASURE UNE SIDE OF DOORWAY, TURN TO OTHER SIDE OF DOORWAY, MFASURE, BEND, MEASURE BOTTOM OF DOORWAY, ARISE, TURN TO OTHER SIDE OF DOORWAY, GET HAMMER, TAP FRAME SIX TIMES TO CENTER, BEND, MEASURE DOORWAY, TAP FRAME SIX TIMES TO CENTER, MEASURE, ARISE, MEASURE TOP OF DOORWAY AND ASIDE HAMMER AND RULE ENDS-WITH RELEASE OF TOOLS CONDITIONS-DOES NOT INCLUDE TIME FOR INSTALLING WEDGES TO HOLD DOOR FRAME IN PLACE, APPLICABLE TO INSTALLATION OF STEEL DOOR FRAME IN BRICK OR MASONRY WALL.
NF.	86X	MAF .	1396	SITFCOL	1041	FRAME(DOOR), CHECK FOR VERTICAL ALIGNMENT WITH LEVEL STARTS-WITH REACH TO LEVEL INCLUDES-ALL MOTIONS NECESSARY TO GET LEVEL. POSITION LEVEL TO FRONT OF FRAME, CHECK READING, POSITION LEVEL TO SIDE OF FRAME, CHECK READING, POSITION LEVEL TO REAR OF FRAME, CHECK READING, TURN TO OTHER SIDE OF DOORWAY, POSITION LEVEL TO REAR OF FRAME, CHECK READING, POSITION LEVEL TO SIDE OF FRAME, CHECK READING, POSITION LEVEL TO FRONT OF FRAME, CHECK READING, AND ASICE LEVEL ENDS-WITH RELEASE OF LEVEL CONDITION-NO TIME INCLUDED FOR CORRECTING ALIGNMENT OF DOOR FRAME. APPLICABLE TO INSTALLATION OF STEEL DOOR FRAME IN BRICK OR MASGNRY WALL
NF	86X	MAF	23	MJPB001	112	BLOCKISANDING), OBTAIN AND ATTACH SANDPAPER STARTS-WITH REACH TO BLOCK INCLUDES-ALL MOTIONS NECESSARY TO GET BLOCK, GET SANDPAPER, AND WRAP PAPER AROUND BLOCK ENDS-WITH BLOCK IN HAND CONDITION-NO TIME INCLUDED FOR TEARING SANDPAPER
NF	86X -	MAF	2578	SJPBC01	380	BELT, CHANGE ON HAND HELD SANDING MACHINE STARTS-WITH REACH TO SANDING MACHINE INCLUDES-ALL MOTIONS NECESSARY TO TURN MACHINE ON SIDE, RELEASE BELT, REMOVE BELT FROM ROLLERS, ASIDE BELT, GET NEW BELT, POSITION BELT OVER ROLLERS, MOVE HANDLE TO TIGHTEN BELT, TURN MACHINE UPRIGHT, AND ADJUST BELT TENSIUN ENDS-WITH RELEASE OF MACHINE

DATA Source	OCCUP- ATION	QUAL I TY	SOURCE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	34	MMHGRO1	886	OBJECT, RAISE AND LOWER WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT STARTS-WITH REACH TO HOIST ROPE INCLUDES-ALL MOTIONS NECESSARY TO RAISE OBJECT AN AVERAGE OF 28 FEET (OPERATOR STEPS BACK SEVEN PACES WHILE RAISING), AND TO STEP FORWARD SEVEN PACES TO LOWER OBJECT ENDS-WITH RELEASE OF HOIST ROPE COMDITION-RESISTANCE TO RAISING HOIST IS 45 POUNDS ENW.TIME TO ATTACH OR REMOVE OBJECT NOT
			•	•		INCLUDED.
NF	86X	MAF	1301	MNFAAOI	367	ADMESIVE, APPLY TO FLOOR WITH SERRATED TROWEL, PER SQUARE FOOT STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO CONTAINER OF ADMESIVE, OBTAIN ADMESIVE ON TROWEL, AND SPREAD ADMESIVE ON FLOOR ENOS-WITH TROWEL IN HAND
NF	86X	МДБ	1325	MNFB101	876	BRACE(BOTTOM), INSTALL IN METAL DOOR FRAME STARTS-WITH BRACE, RIVETS, AND EXPANDER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO KNEEL ON BOTH KNEES, ASIDE BRACE, ASIDE RIVET EXPANDER, PLACE FOUR RIVETS THROUGH HOLES IN FRAME, GET BRACE, PLACE OVER RIVETS, GET EXPANDER FOUR TIMES, EXPAND RIVETS, AND ASIDE EXPANDER ENDS-WITH ARISE CONDITION-TWO RIVETS INSTALLED IN EACH END OF BRACE
			122/	SNFB[0]	380	BRACE(CENTER), INSTALL IN METAL DOOR FRAME
٧F	86X	MAF	.1326	30000		STARTS-WITH GET WEDGE INCLUDES-ALL MOTIONS NECESSARY TO GET BRACE, TURN TO DOOR FRAME. POSITION BRACE, POSITION WEDGE TO HOLD BRACE, GET HAMMER, AND TAP WEDGE TO TIGHTEN BRACE ENDS-WITH ASIDE HAMMER
NF	86X	MAF	1398	SNFW101	251	WEDGE, INSTALL TO HOLD DOOR FRAME IN PLACE STARTS-WITH GET TWO WEDGES(O"E IN EACH HAND) INCLUDES-ALL MOTIONS NECESSARY TO MOVE WEDGES TO FRAME, INSERT BY HAND, GET HAMMER, TAP EACH WEDGE TWO TIMES, AND ASIDE HAMMER
						ENDS→NITH RELEASE OF HAMMER CONDITIONS→DOES NOT INCLUDE THE INSTALLATION OF WEDGES TO LEVEL FRAME
ŊF	86X	MAF	1399	SNFWI 02	458	WEDGE, INSTALL TO RAISE AND LEVEL DOOR FRAME STARTS-WITH GET WEDGE INCLUDES-ALL MOTIONS NECESSARY TO KNEEL ON BOTH KNEES, INSERT WEDGE BY HAND, GET HAMMER, STRIKE WEDGE FOUR TIMES, GET SECOND WEDGE, INSERT BY HAND, STRIKE WEDGE FOUR BLOWS WITH HAMMER, AND ASIDE HAMMER ENDS-WITH ARISE
NF	86X	MAF	2946	40HC0 01	256	CUTTERIGASKET). OBTAIN FROM CASE AND PUT AWAY STARTS-WITH GET CASE INCLUDES-ALL MOTIONS NECESSARY TO OPEN CASE, REMOVE CUTTER FROM CASE, GET CUTTER, REPLACE IN CASE, AND CLOSE CASE ENDS-WITH ASIDE CASE
NF	86X	MAF	84	MOHFU01	352	FELT(ROOFING), UNROLL 15 FEET STARTS-WITH KNEEL TO ROLL OF FELT INCLUDES-ALL MOTIONS NECESSARY TO ALIGN FELT FOR UNROLLING, START UNROLLING, ARISE, AND WALK AND KICK ROLL OF FELT TO UNROLL A 15-FOOT LENGTH ENDS-WITH FELT UNROLLED CONDITIONS-ROLL OF FELT PREVIOUSLY OBTAINED
						AND PLACED IN APPROXIMATE POSITION

DATA Source	CCUP-	QUAL ITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUF	SPERATION/ ELEMENT DESCRIPTION
NF	86X	MAF	3311	MOHGRO1	245	GASKET, REMOVE FROM CUTTING BOARD AND ASIDE SCRAP STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO REMOVE TWO PINS WITH CLAW HAMMER, ASIDE HAMMER, AND ASIDE GASKET ENDS-WITH ASIDE SCRAP MATERIAL
NF	86X	MAF	1404	SOHAFOI	296	FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOR FRAME STARTS-WITH REACH TO DOOR FRAME INCLUDES-ALL MOTIONS NECESSARY TO MOVE FRAME SLIGHTLY TO ADJUST, SIDESTEP AND STOOP TO LOWER ANCHOR, POSITION AND CHECK VISUALLY, ARISE, POSITION AND CHECK MIDDLE ANCHOR, AND POSITION AND CHECK TOP ANCHOR ENDS-WITH FRAME AND ANCHORS ADJUSTED
NF	86X	MAF	1400	SOHFAO1	1613	FRAME(METAL DOOR), ASSEMBLE STARTS-WITH KNEEL ON BOTH KNEES, HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO ASIDE HAMMER, GET ONE SIDE FRAME AND MOVE NEAR TOP, GET TOP AND PREPOSITION TO SIDE, GET SIDE FRAME AND POSITION TO INSERT LUGS IN HOLES, GET HAMMER, STRIKE TOP TO SEAT, BEND LUGS OVER WITH HAMMER, ASIDE HAMMER, BEND OVER FRAME, INSPECT WORK, AND ARISE FROM BEND. NOTE-THIS MOTION SEQUENCE IS REPEATED FOR SECOND SIDE FRAME. ENDS-WITH ARISE FROM KNEELING POSITION CONDITIONS-ODES NOT INCLUDE TIME TO GET AND PLACE COMPONENT PARTS
NF	86X 	MAF	3435	MTLBA01	411	BLADE(GASKET CUTTER), ADJUST WITH CLAMPING SCREWS STARTS-WITH CUTTER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET SCREWDRIVER, LOOSEN TWO CLAMPING SCREWS, ADJUST BLADE HEIGHT, TIGHTEN SCREWS, AND ASIDE CUTTER ENDS-WITH ASIDE SCREWORIVER
NF	86X	MAF	1688	MTLBU01	538	BOB(PLUMB), USE STARTS-WITH PLUMB BOB IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE PLUMB BOB TO ATTACHING POINT, WRAP CORD TO ATTACH, LOWER PLUMB BOB, POSITION CORD ON MARK, ADJUST CORD LENGTH, STOOP TO PLUMB BOB, STOP PLUMB BOB FROM SWINGING, ARISE, AND REMOVE PLUMB BOB ENOS-WITH PLUMB BOB IN HAND
NF	86X	MAF	3436	MTLCAOI	176	CUTTER(GASKET).ADJUST TO SIZE FOR RING GASKET STARTS-WITH REACH TO CUTTER INCLUDES-ALL MOTIONS NECESSARY TO GET CUTTER, LOOSEN THUMB SCREW.POSITION SIZE INDICATOR,AND TIGHTEN THUMB SCREW ENDS-WITH CUTTER IN HAND
NF	86X	MAF	3737	MTLCP01	173	CUTTER(GASKET), POSITION TO BOARD AND REMOVE STARTS-WITH REACH FOR GASKET CUTTER INCLUDES-ALL MOTICNS NECESSARY TO MOVE PIVOT PIN TO CENTER MARK ON GASKET MATERIAL, PRESS PIN INTO MATERIAL, AND POSITION IN CENTER HOLE; AND DISENGAGE PIVOT PIN AND MOVE CUTTER A SIDE ENOS-WITH RELEASE OF CUTTER
NF	86X	MAF	113	MTLGL01	125	GUN(CAULKING), LOAD WITH CARTRIDGE STARTS-WITH GET CAULKING GUN INCLUDES-ALL MOTIONS NECESSARY TO TURN AND MOVE HANDLE BACK, GET CARTRIDGE, POSITION IN GUN, TURN HANDLE, AND ACTUATE TRIGGER TO BRING PLUNGER TO END OF CARTRIDGE ENDS-WITH RELEASE OF TRIGGER CONDITION-APPLICABLE TO HALF CYLINDER, CARTRIDGE TYPE CAULKING GUN

DATA Source	OCCUP- ATION	QUAL ITY	SDURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	340/341	MTPTCOL	578	TOOL, CINNECT TO AND DISCONNECT FROM EXTENSIGN CORD LYING ON FLOOR STARTS-WITH LOOK TO END OF TOOL CORD INCLUDES-ALL MOTICINS NECESSARY TO WALK FOUR PACES, BEND TO END OF TOOL CORD, GET CORD, ARISE, WALK FOUR PACES TO END OF EXTENSION CORD, BEND, GET END OF EXTENSION CORD, PLUG TOOL INTO EXTENSION CORD, PLACE CORD ON FLOOR, AND ARISE; AND LOOK FOR CORD CONNECTION, WALK FOUR PACES, BEND, GET CORD, SEPARATE TOOL CORD FROM EXTENSION, AND ASIDE CORD ENDS ENDS-WITH ARISE FROM BEND
ΔE	860	MAW	FCHEAP1	мјрвно1	75	BOARD, HOLD FOR SAWING STARTS-WITH REACH TO BOARD INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO BOARD; MOVE BOARD TO POSITION, PUT KNEE ON BOARD; REMOVE KNEE FROM BOARD AND RELEASE BOARD ENDS-WITH RELEASE BOARD CONDITIONS-NO TIME INCLUDED FOR SAWING
NF	860	MAF	336/337	10189LM	234	BIT, INSTALL IN AND REMOVE FROM BRACE STARTS-WITH REACH TO BIT; BRACE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PICK UP BIT, POSITION IN CHUCK, AND TIGHTEN CHUCK; AND LOOSEN CHUCK, AND REMOVE BIT ENDS-WITH ASIDE BRACE AND BIT
ΔĒ	860	MAW	FCHEAL1	,MJP8102	173	BIT.INSTALL IN AND REMOVE FROM HAND DRILL STARTS-WITH MOVE BIT TO CHUCK INCLUDES-ALL MOTIONS NECESSARY TO POSITION DRILL INTO CHUCK, TIGHTEN CHUCK; LOOSEN AND RELEASE CHUCK ENDS-WITH RELEASE CHUCK
ΔE	860	MAW .	FCHEAB2	EDIB9LM	102	BIT, INSTALL IN AND REMOVE FROM SPIRAL DRILL STARTS-WITH GET HOLD OF CHUCK INCLIDES-ALL MOTIONS NECESSARY TO OPEN SPRING CHUCK, INSERT DRILL IN CHUCK, LOCK CHUCK AND MOVE DRILL READY FOR USE:MOVE DRILL AND OPEN CHUCK, REMOVE DRILL AND RELEASE CHUCK SPRING ENDS-WITH RELEASE SPRING
NF	860	MAF	117	MOHCA01	111	CARTRIDGE, ASSEMBLE TO STUD STARTS-WITH GET STUD INCLUDES-ALL MOTIONS NECESSARY TO GET CARTRIDGE AND ASSEMBLE TO STUD ENDS-WITH ASIDE ASSEMBLY
ΔF	860	MAW	FCHEANI	MOHNG01	65	NAILS.GET FROM BOX STARTS-WITH REACH TO BOX OF NAILS INCLIDES—ALL MOTIONS NECESSARY TO GET A HANDFUL OF NAILS ENDS-WITH MOVE HAND AWAY FROM BOX
NF	860	MAF	328	MOHPLO1	704	PARTITION(ASSEMBLED).LIFT FROM FLOOR AND POSITION TO MARKS STARTS-WITH KNEEL TO GET PARTITION INCLUDES-ALL MOTIONS NECESSARY TO GRASP TOP PLATE.ARISE FROM FLOOR WITH PARTITION.LIFT PARTITION TO VERTICAL POSITION, AND POSITION PARTITION TO MARKS AT BOTTOM AND TOP ENOS-WITH HANDS ON PARTITION CONDITION-APPLICABLE TO PARTITION WITH ENW TO 160 POUNDS.TIME VALUE IS TOTAL FOR TWO OPERATORS

DATA Source	OCCUP- ATION	QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT		OPERATION/ ELEMENT DESCRIPTION
NF	860	MAF	194	40HPM01	277	PLATE(FOUNDATION), MAKE LEVEL WITH SHIMS STARTS-WITH KNEEL TO PLATE INCLUDES-ALL MOTIONS NECESSARY TO RAISE PLATE, GET TWO SHIMS, AND INSERT SHIMS UNDER PLATE ENDS-WITH ARISE CONDITION-TIME TO GET AND POSITION PLATE NOT INCLUDED
NF	860	MAF	195	MOHPPO1	, 44 1	PLATE(FOUNDATION), POSITION TO BOLTS SET IN CONCRETE STARTS—WITH PLATE IN HANDS INCLUDES—ALL THE MOTIONS NECESSARY TO BEND TO FOUNDATION AND POSITION PLATE ON BOLTS ENDS—WITH ARISE FROM BEND CONDITIONS—APPLICABLE TO INSTALLATION OF 2" X 4" OR 2" X 6" PLATE 12 FEET LONG WITH BOLT HOLES ON 4—FOOT CENTERS, TIME VALUE IS FOR TWO OPERATORS.
AE	860	MA In	FCHEAG L	MTLBPO1	69	BIT(AND BRACE), POSITION FOR DRILLING AND REMOVE STARTS=WITH MOVE DRILL TO MARK INCLUDES=ALL THE MOTIONS NECESSARY TO POSITION DRILL BIT TO MARK, PUSH POINT OF BIT INTO WOOD; DISENGAGE BIT FROM HOLE AND MOVE BRACE FROM WORK AREA ENDS=WITH BRACE IN HANDS, MOVED FROM HOLE CONDITIONS=ODES NOT INCLUDE TIME FOR DRILLING HOLE OR TURNING BRACE TO REMOVE BRACE. APPLICABLE TO BRACE AND BIT OR HAND ORILL
NF	860	MAF	252	MTLBŠXX	VARIABLE	BOARD, SAW IN MITER BOX STARTS-WITH BOARD IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET SAW HANDLE, LIFT SAW, POSITION BOARD IN BOX, POSITION SAW TO BOARD, AND MAKE ONE FORWARD AND ONE
					105	RETURN STROKE WITH SAW ENDS-WITH RELEASE OF SAW HANDLE: BOARD IN BOX CASE OI POSITION BOARD AND MAKE ONE STROKE (FORWARD AND RETURN)WITH SAW 02 EACH ADDITIONAL STROKE WITH SAW
ΔE	860	MAW	FCHE4Z1	MTLDP01	37	DRILL(SPIRAL), POSITION TO MARK AND REMOVE STARTS-WITH MOVE TOOL TO MARK INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE ORILL, POSITION TO MARK; DISENGAGE DRILL FROM HOLE ENDS-WITH DRILL DISENGAGED FROM HOLE
A E	860	MAW	FCHEAA2	4T1H001	23	HOLE, DRILL WITH SPIRAL DRILL, PER STROKE STARTS - WITH DRILL IN POSITION FOR USE INCLUDES - ALL MOTIONS NECESSARY TO PUSH SPIRAL DRILL DOWN AND RETURN ENDS - WITH END OF RETURN STROKE
NF	860	MAF	322	MTLLSO1	281	LINE, STRIKE WITH CHALK LINE STARTS—WITH LINE HELD NEAR REFERENCE POINTS BY TWO OPERATORS INCLUDES—ALL MOTIONS NECESSARY TO MOVE LINE TO REFERENCE POINTS, HOLD, GET CHALK LINE, RAISE VERTICALLY, AND RELEASE CORD TO STRIKE LINE ENDS—WITH LINE ON SURFACE CONDITION—TIME VALUE IS TOTAL FOR TWO OPERATORS
ΔE	860		FCHE4X1		59 .	NAIL, POSITION AND START TO ORIVE WITH HAMMER STARTS-WITH MOVE NAIL FROM PALM TO FINGERS [NCLUDES-ALL MOTIONS NECESSARY TO GET NAIL FROM PALM, MOVE, POSITION AND HOLD NAIL, MOVE HAMMER AND TAP NAIL TO STARTIONE BLOW) ENDS-WITH NAIL STARTED INTO BOARO

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DATA Source		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	860	MAF	263	MTLNSXX	99 72	NAIL, START IN BOARD STARTS-WITH SIMO GET NAILS FROM POCKET AND HAMMER FROM LOOP INCLUDES-ALL MOTIONS NECESSARY TO POSITION NAIL, AND STRIKE NAIL TWO BLOWS WITH HAMMER TO START IN BOARD ENDS-WITH HAMMER IN HAND CONDITION-APPLICABLE TO PRE-NAILING FASCIA STRIPS, ETC. CASE OI FIRST NAIL OZ EACH ADDITIONAL NAIL(POSITION AND STRIKE NAIL ONLY)
ΔE	860	MAW	FCHEAB1	MTLPAC1	192	PLANE(HAND), ADJUST STARTS-WITH PLANE IN HAND INCLUDES-ALL MOTICNS NECESSARY TO TURN PLANE, CHECK FOR BLADE HEIGHT, ADJUST BLACE HEIGHT BY TURNING ADJUSTING KNOB, MOVE LEVER TO ADJUST LEVEL, TURN PLANE OVER AND MOVE TOWARDS WOPK ENDS-WITH PLANE IN HANDS, READY TO PUSITION TO BOARD CONDITIONS-PLANE WEIGHS APPROXIMATELY 10 POUNDS
AE	860	MAW	FCHSDXX	STLDHXX	VARIABLE	HOLE, DRILL WITH SPIRAL DRILL(ONE INCH HOLE) STARTS-WITH GET DRILL INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL, GET AND INSTALL DRILL BIT, POSITION DRILL TO MARK AND DRILL HOLE, REMOVE BIT FROM ORILL AND ASIDE ORILL AND BIT; OR MOVE TO ADDITIONAL MARK AND DRILL HOLE ENDS-WITH ASIDE DRILL OR REMOVE DRILL FROM
						HOLE CONDITIONS APPROXIMATELY FIVE STROKES REQUIRED
		•			385	TO DRILL HOLE CASE OI DRILL FIRST HOLE ONE INCH DEEP WITH
				•	152	SPIRAL DRILL OZ DRILL ADDITIONAL HOLE ONE INCH DEEP WITH SPIRAL DRILL
ΔE	860	MAW	FCHNL XX	STLNRXX	VARIABLE 124 86	NAIL, REMOVE WITH HAMMER STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO GET HAMMEN, POSITION CLAWS TO NAIL, PULL NAIL OUT, KEMOVE NAIL FROM HAMMER CLAWS AND ASIDE NAIL AND HAMMERIOR MOVE HAMMER TO NEXT NAIL, REMOVE AND ASIDE NAIL ENDS-WITH ASIDE HAMMER OR NAILS CASE OI REMOVE FIRST NAIL OZ REMOVE ADDITIONAL NAIL
NF	860	MAF	116	MTPG001	. 99	GUN(POWDER ACTUATED), OPEN AND CLOSE STARTS-WITH REACH TO GUN INCLUDES-ALL MOTIONS NECESSARY TO GET GUN, PRESS LEVER DOWN, OPEN GUN STOCK, PRESS LEVER DOWN, CLOSE GUN STOCK, AND MOVE LEVER TO LOCK ENDS-WITH RELEASE OF LEVER, GUN IN HAND
NĖ	860	MAF	115	MTPGPO	1 221	GUN(POWDER ACTUATED). POSITION AND FIRE JNE BOLT OR STUD STARTS-WITH STUD GUN IN HAND - INCLUDES-ALL MOTIONS NECESSARY TO MOVE GUN TO POSITION, AND FIRE GUN ENDS-WITH ASIDE GUN
DNI	F 860	MAF	STPSIOI	STPSIO	1 494	STUD.INSTALL WITH POWDER ACTUATED GUN STARTS-WTIH REACH FOR STUD INCLUDES-ALL MOTIONS NECESSARY TO GET STUD.GET CARTRIDGE, ASSEMBLE STUD AND CARTRIDGE, GET GUN, OPEN GUN.INSTALL CARTRIDGE AND STUD ASSEMBLY, CLOSE GUN.POSITION GUN.FIRE STUD.AND ASIDE GUN ENDS-WITH RELEASE OF GUN

DATA SCURCE		QUALITY	SOURCE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	961	MAF	1436	MNF MAO1	82	MORTAR, APPLY TO ONE END AND ONE SIDE OF BRICK STARTS-WITH TROWEL AND BRICK IN HAND INCLUDES-ALL MOTIONS NECESSARY TO APPLY MORTAR TO END OF BRICK, TURN BRICK, AND APPLY MORTAR TO SIDE OF BRICK ENDS-WITH TROWEL AND BRICK IN HAND CONDITIONS-TIME TO OBTAIN MORTAR ON TROWEL NOT INCLUDED
ΝF	961	MAF	1443	MNF MAO2	244	MURTAR, APPLY ON THREE BRICK LENGTHS; FURROW AND CUT JOINT STARTS-WITH TROWEL LOADED WITH MORTAR IN HAND INCLUDES-ALL MOTIONS NECESSARY TO THROW MORTAR ON THREE BRICKS, FURROW JOINT, AND CUT JOINT WITH TROWEL IN HAND
٧F	861	MAF	1506	MNFM403	28	MORTAR.APPLY TO ONE END OF BRICK STARTS-WITH BRICK AND TROWEL FILLED WITH MORTAR IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO BRICK AND PRESS MORTAR ON ONE END ENDS-WITH BRICK AND TROWEL IN HAND
\ F	861	MAF	1331/32	монвохх .•	VARIABLE 198 229	BRICK(FIRE), DIP IN ADHESIVE STARTS-WITH FIRE BRICK IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SIDESTEP AND STOOP TO ADHESIVE PAN, DIP BRICK IN ADHESIVE, REMOVE, AND SHAKE TO REMOVE EXCESS ENDS-WITH ARISE AND TURN TO INSTALLATION POINT CASE OI DIP TWO SIDES OF ARICK 02 DIP THREE SIDES OF BRICK
VF	95-1	MAF	1329	MOHBOO1	169	BRICK, DATAIN AND WET, PREPARATORY TO INSTALLATION STARTS-WITH TURN TO PILE OF BRICKS INCLUDES-ALL MOTIONS NECESSARY TO BEND, GET BRICK, MOVE BRICK IN AND OUT OF CONTAINER OF WATER, ARISE, AND TURN TO WALL ENDS-WITH BRICK IN HAND
ŊF	961	M∆F	1337	МОНВ РОІ	280	RRICK(FIRE), PLACE AND TAP INTO POSITION STARTS-wITH BRICK AND TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BRICK TO WALL AND POSITION; TAP END, SIDE, AND TUP OF BRICK WITH TROWEL ENDS-WITH BRICK IN PLACE CONDITIONS-APPLICABLE TO REPAIR WORK ONLY
٧F	861	MAF	1310	монв со1	591	BED(MORTAR SETTING), SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET STARTS-WITH KNEEL ON BOTH KNEES INCLUDES-ALL MOTIONS NECESSARY TO GET BUARD, PLACE TO MORTAR, AND MOVE BOARD SIDEWAYS TO SMOOTH MIX, AND ASIDE BOARD ENDS-WITH ARISE
\ F	861	МДР	1338	МОНВТО1	475	BRICK(JAMB FIRE), TAP INTO POSITION UN OUTSIDE CORNER STARTS-WITH BRICK AND TROWEL IN HAND INCLUDES-ALL MOTICNS NECESSARY TO MOVE BRICK INTO POSITION; TAP END, SIDE, AND TOP OF BRICK WITH TROWEL; CHECK ALIGNMENT, TAP BRICK AS NECESSARY AND RECHECK ALIGNMENT ENDS-WITH TROWEL IN HAND CONDITIONS-APPLICABLE TO REPAIR HORK ONLY

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
ΝF	861	MAF	1512	чонвто2	673	BRICK, TAP INTO POSITION FOR TIE-IN STARTS-WITH BRICK IN ONE HAND, HAMMER IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO GET GRICK WITH BOTH HANDS (HAMMER PALMED); POSITION BRICK IN MORTAR; TAP END, SIDE, AND TOP OF BRICK TO SEAT; CHECK VISUALLY; TAP END, SIDE, AND TOP OF BRICK SECOND TIME; AND CHECK VISUALLY ENDS-WITH HAMMER IN HAND CONDITIONS-BRICK WEIGHS APPROXIMATELY 15 POUNDS APPLICABLE TO REPAIR WORK ONLY
NF	861	MAF	1508	SOHBOO1	.429	BAG(CEMENT). OBTAIN AND OPEN STARTS-WITH WALK TWO PACES TO CEMENT STORAGE INCLUDES-ALL MOTIONS TO BEND TO BAG OF CEMENT, PICK UP CEMENT, TURN, WALK TWO PACES TO MIXING LOCATION, SET CEMENT DOWN, ARISE, AND PULL TAB TO OPEN BAG ENDS-WITH ASIDE TAB
NF	861	MAF	1306/07	SOHBRO1	574	BACKING(PAPER), REMOVE FROM TILE FIELD, 13"X26" STARTS-WITH GET RAG OR SPONGE INCLUDES-ALL MOTIONS NECESSARY TO DIP RAG OR SPONGE IN CONTAINER OF WATER, SQUEEZE TO REMOVE EXCESS, WIPE FIELD OF TILE, ASIDE SPONGE, GET EDGE OF PAPER BACKING, PULL PAPER OFF, SWEEP DEBRIS WITH HAND, AND ASIDE DEBRIS ENDS-WITH RELEASE OF DEBRIS
NF	861	MAF	1408	SOHGPOI	333	GROUT, POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT STARTS-WITH REACH FOR PAIL OF GROUT INCLUDES-ALL MOTIONS NECESSARY TO MOVE PAIL INTO POSITION, INVERT, POUR GROUT OVER TILE, SET PAIL ASIDE, GET BRUSH, BRUSH GROUT, AND ASIDE BRUSH ENDS-WITH RELEASE OF BRUSH CONDITIONS-PAIL OF GROUT WEIGHS TO 10 POUNDS
NF	861	МАР	1486	SOHTPO1	417	TILE.POSITION AND LEVEL TO ADJOINING TILE STARTS-WITH REACH TO TILE INCLIDES-ALL MCTIONS NECESSARY TO GET TILE. POSITION, GET BLOCK, PLACE ON TILE, TAP WITH PALM, REMOVE BLOCK, INSPECT VISUALLY, MOVE BLOCK TO TILE, TAP WITH PALM, REMOVE BLOCK, INSPECT, AND ASIDE BLOCK ENDS-WITH RELEASE OF BLOCK CONDITIONS-APPLICABLE TO REPLACEMENT OF TILE
NF	861	MAF	1327	MTLBBO1	331	BRICK, BREAK WITH TROWEL TO FIT STARTS-WITH TURN TO PILE OF BRICKS INCLUDES-ALL MOTIONS NECESSARY TO BEND, PICK UP BRICK, ARISE, TURN TO WALL, POSITION BRICK TO MEASURE, MARK BRICK WITH TROWEL, MOVE BRICK TO FRONT OF BODY, STRIKE WITH TROWEL TO BREAK, AND MOVE BRICK TO WALL TO CHECK FIT ENDS-WITH BRICK IN HAND
NF	861	MAF	1465	MTLBCOI	660	BAG.CUT.CEMENT OR SIMILAR USING TROWEL STARTS-WITH BEND TO BAG OF CEMENT INCLUDES-ALL MOTIONS NECESSARY TO PICK UP BAG OF CEMENT.LIFT TO POSITION.GET TROWEL.STRIKE BAG TO CUT IN HALF.LIFT BAG TO FULD.AND CUT REMAINDER OF BAG WITH TROWEL TO SEPARATE HALVES ENDS-WITH ASIDE TROWEL AND ARISE
ŊF	861	MAF	1309	MTLB SOL	357	BED(MORTAR SETTING), SCREED, PER TWO SQUARE FEET STARTS-WITH SCREED IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREED TWO SQUARE FEET OF MORTAR SETTING BED ENDS-WITH SCREED IN HAND

DATA SOURCE		YTIJAUÇ	SOURCE	DWMSTOP ELEMENT		OPERATION/ ELEMENT DESCRIPTION
NF	861	MAF	1510	MTLCB01	190	BRICK, CHIP OUT WITH CHISEL AND HAMMER, PER CUBIC INCH STARTS-WITH CHISEL AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE CHISEL TO BRICK, MOVE HAMMER TO CHISEL, AND CHIP OUT ONE CUBIC INCH OF BRICK(SIX HAMMER BLOWS) ENDS-WITH CHISEL AND HAMMER IN HAND CONDITIONS-NO TIME ALLOWED FOR REPOSITIONING CHISEL
ΝF	861	MAF	1426	MTLJCOL	246	JOINT(MORTAR), CUT DEF, BOTTOM AND ONE END, THREE BRICKS, WITH TROWEL STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT OFF ONE HORIZONTAL JOINT(THREE BRICKS LONG), SHAKE MORTAR FROM TROWEL TO MORTAR PAN, CUT OFF THREE VERTICAL JOINTS(ONE BRICK HIGH), AND SHAKE MORTAR INTO PAN ENDS-WITH TROWEL IN HAND
NF	861	MAF	1427	MTLJC02	117	JJINT(MORTAR), CUT OFF, BOITOM AND ONE END, ONE BRICK, WITH TROWEL STARTS—WITH TROWEL IN HAND INCLUDES—ALL MOTIONS NECESSARY TO CUT OFF ONE HORIZONTAL AND ONE VERTICAL JOINT(ONE BRICK ONLY) AND SHAKE MORTAR FROM TROWEL INTO MORTAR PAN ENDS—WITH TROWEL IN HAND
NF .	861	MAF	1429	MTLJP01	208	JIINT(MORTAR), POINT UP HORIZONTAL AND VERTICAL 8"X16" BLOCK STARTS-WITH POINTING TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POINT UP ONE VERTICAL AND ONE HORIZONTAL JOINT OF ONE BLOCK ENDS-WITH TOOL IN HAND
ИF	861	MAF	1429	MTLJS01	195	JOINTIMORTAR), STRIKE, VERTICAL AND HORIZONTAL, ONE BLOCK, WITH TROWEL STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO VERTICAL JOINT, STRIKE JOINT, SHAKE MORTAR FROM TROWEL, STRIKE HORIZONTAL JOINT, AND SHAKE MORTAR FROM TROWEL ENDS-WITH TROWEL IN HAND
NF	861	MAF	1492	MTLTF01	132	TROWEL, FILL WITH MORTAR STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TURN AND BEND TO MORTAR PAN, DIP TROWEL IN MORTAR, LIFT LOADED TROWEL, ARISE, AND TURN TO WORK ENDS-WITH TROWEL FILLED WITH MORTAR IN HAND
NF	862	MAF	3320	SEMTPO1	252	TOOL(REAMING), POSITION AND RETURN, TOLEDO 999 PIPE MACHINE OR SIMILAR STARTS-WITH REACH TO REAMER INCLUDES-ALL MOTIONS NECESSARY TO SWING REAMER OWN TO CUTTING POSITION, MOVE CARRIAGE TO BRING REAMER TO PIPE END, MOVE REAMER PIPE, MOVE CARRIAGE AVAY, AND RAISE REAMER ENDS-WITH RELEASE OF REAMER CONDITIONS-DOES NOT INCLUDE TIME FOR REAMING
NF	862	М Δ' F	602	MNF SI XX	VARTABLE 90 43	STAPLE, INSTALL IN PIPE COVER STARTS—WITH REACH TO PIPE COVER, STAPLER IN HAND INCLUDES—ALL MOTIONS NECESSARY TO POSITION COVER AND INSTALL STAPLE ENDS—WITH STAPLE INSTALLED, STAPLER IN HAND CASE OI FIRST STAPLE O2 EACH ADDITIONAL STAPLE(POSITIONING OF COVER NOT REQUIRED)

DATA Source		QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	3733	MOHCGXX	VARIABLE	COVER(PIPE).GET AND POSITION ON PIPE, LENGTH OF COVER-THREE FEET STARTS-WITH GET COVER INCLUDES-4LL MOTIONS NECESSARY TO OPEN COVER, SLIDE OVER PIPE, AND POSITION ENDS-WITH RELEASE OF COVER
					119 188 314	CASE OI SMALL PIPE, TO TWO INCHES DIAMETER O2 MEDIUM PIPE, TWO-SIX INCHES DIAMETER O3 LARGE PIPE, GREATER THAN SIX INCHES DIAMETER
NF	862	MAF	556	MOHC 001	288	CLOTH, OBTAIN FROM ROLL STARTS-WITH REACH TO CLOTH ON ROLL INCLUDES-ALL MOTIGNS NECESSARY TO UNRULL TO 16 INCHES OF CLOTH, GET KNIFE, SLIT CLUTH, ASIDE KNIFE, AND TEAR CLOTH TO SEPARATE FROM ROLL ENDS-WITH RELEASE OF CLOTH CONDITIONS-CLOTH IS 36 INCHES WIDE.APPLICABLE TO CBTAINING MUSLIN OR SIMILAR FOR WRAPPING PIPES AND FITTINGS
NF	862	MAF	557	MOHC SO1	134	CLOTH.SMCOTH AFTER WRAPPING AROUND PIPE FITTING STARTS-WITH REACH TO CLOTH INCLUDES-ALL MOTIONS NECESSARY TO STRAIGHTEN AND SMOOTH CLOTH WRAPPING WITH HANDS ENDS-WITH RELEASE OF CLOTH CONDITIONS-APPLICABLE TO SMOOTHING CLOTH WRAPPED AROUND FITTING FOR INSULATION
NF	862	MAF	654	монғжо1	310	FITTING. BRAP WITH WIRE (CHICKEN WIRE OR SIMILAR). STARTS-WITH REACH TO WIRE INCLUDES-ALL MOTIONS NECESSARY TO WRAP AIRE AROUND PIPE FITTING ENDS-WITH RELEASE OF WIRE
NF	862	MAF	3738	чоно[о[9 ,7	GASKET, INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER STARTS-WITH REACH TO GASKET INCLUDES-ALL MOTIONS NECESSARY TO GET GASKET, POSITION BETWEEN FLANGES, ALIGN GASKET TO HOLE, AND PRESS GASKET INTO PLACE ENDS-WITH RELEASE OF GASKET
NF	862	MAF	3309	MOHJAOI	332	JOINT(FLANGE), ALIGN STARTS-WITH REACH TO FLANGE INCLUDES-ALL MCTIONS NECESSARY TO BRING FLANGE TOGETHER, ALIGN APPROXIMATELY, GET PIN, INSERT IN BOLT HOLE, ALIGN FLANGES, AND REMOVE PIN ENDS-WITH ASIDE PIN CONDITIONS-TIME FOR INSTALLATION OF BULTS NUT INCLUDED-APPLICABLE TO PIPE THO-SIX INCHES INSIDE DIAMETER.
NF	862	MĄF	3310	SOALHOP	2 171	JOINT(FLANGE).ALIGN WITH PIN STARTS-WITH GET PIN INCLUDES-ALL MOTIONS NECESSARY TO INSERT PIN THROUGH BOLT HOLES IN TWO FLANGES TO BRING FLANGES INTO ALIGNMENT ENDS-WITH ASIDE PIN CONDITIONS-TIME FOR INSTALLATION OF BOLTS NOT INCLUDED
NF	862	MAF	542/3/4	40HL00	t 823	LAMPWICK, OBTAIN AND WRAP ON THREADS OF PIPE STARTS-WITH REACH TO ROLL OF LAMPWICK INCLUDES-ALL WITTONS NECESSARY TO GET ROLL OF LAMPWICK, UNROLL SIX-FOOT SECTION, BREAK SECTION FROM ROLL, ASIDE ROLL, SEPARATE STRANDS OF LAMPWICK, AND WRAP STRAND ON THREADS OF PIPE ENDS-WITH RELEASE OF LAMPWICK

DATA Source		QUALITY	SOURCE CODE	OWMSTDP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	1682	MOHPPO1		PIPE, POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO CHUCK, POSITION, MOVE PIPE INTO CHUCK, TURN, STEP TO OTHER SIDE OF CHUCK, PULL PIPE END THROUGH CHUCK, AND POSITION PIPE IN CHUCK; AND SIDESTEP TO END OF MACHINE, GET PIPE, AND SLIDE FROM CHUCK ENDS-WITH PIPE IN HAND CONDITIONS-APPLICABLE TO 1/4*-2* INSIDE DIAMETER PIPE.MACHINE TIME NOT INCLUDED.
NF	862	MAF	1684	MOHPPOZ	442	PIPE, POSITION IN THREADING MACHINE AND REMOVE, 4=20 FEET IN LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO V=ROLLER, POSITION ON ROLLER, SIDESTEP TO CHUCK, MOVE END OF PIPE TO CHUCK, TURN, MALK TO OTHER SIDE OF CHUCK, AND PULL END OF PIPE THRCUGH CHUCK; AND TURN, WALK TO REAR OF MACHINE, GET PIPE, AND REMOVE FROM CHUCK ENDS-WITH PIPE IN HAND CONDITIONS APPLICABLE TO 1/4*-2* INSIDE DIAMETER PIPE.MACHINE TIME NOT INCLUDED
NF	862	MAF	3313	MOHPPO3	359	PIPE, POSITION IN THREADING MACHINE CHUCK AND REMOVE, TO FOUR FOOT LENGTH STARTS—WITH PIPE IN HAND INCLUDES—ALL MOTIONS NECESSARY TO MOVE PIPE TO CHUCK WHILE WALKING TWO PACES, POSITION END OF PIPE TO CHUCK, AND PUSH PIPE THROUGH CHUCK TO CARRIAGE CYLINDER; AND TURN AND WALK TO END OF MACHINE, AND SLIDE PIPE FROM MACHINE ENDS—WITH PIPE IN HANDS CONDITIONS—APPLICABLE TO PIPE FOUR TO SIX INCHES DIAMETER LOADED IN HEAVY DUTY PIPE MACHINE.NO TIME INCLUDED FOR POSITIONING OR SECURING PIPE IN MACHINE.
NF	862	MAF	599/600	MGHSA 01	1757	SNAKE, ATTACH TO AND REMOVE FROM PIPE, PREPATORY TO LEAD POUR STARTS-HITH REACH TO SNAKE INCLUDES-ALL MOTIONS NECESSARY TO GET SNAKE AND WRAP AROUND PIPE, SECURE SNAKE WITH CLAMP, GET YARN AND POSITION TO PIPE AND CLAMP, PUSH SNAKE AGAINST PIPE, GET HAMMER, POUND SNAKE TO ALIGN SNARE, PLACE HAMMER ASIDE, INSPECT JOINT, REMOVE CLAMP, REMOVE SNAKE, ASIDE SNAKE, AND INSPECT JOINT ENDS-WITH COMPLETION OF INSPECTION
NF ·	862	MAF	601	MOHSPOL	331	STAND(PIPE).POSITION UNDER PIPE STARTS-WITH REACH TO PIPE BY FIRST OPERATOR INCLUDES-ALL MOTIONS NECESSARY FOR FIRST OPERATOR TO LIFT PIPE WHILE SECOND OPERATOR REACHES TO PIPE STAND, MOVES TO TWO PACES AND POSITION UNDER PIPE, AND FIRST OPERATOR TO LOWER PIPE TO STAND ENDS-WITH PIPE POSITIONED ON STAND CONDITION-TIME VALUE IS TOTAL FOR TWO OPERATORS
NF	862	MAF	626	MOHTBO1	167	TUBING. BEND TO MATCH FITTING STARTS-WITH REACH TO TUBE INCLUDES-ALL MOTIONS NECESSARY TO APPLY PRESSURE, BEND TUBING TO ALIGN TO FITTING, AND VISUALLY CHECK RESULTS ENDS-WITH TUBING ALIGNED TO FITTING CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES DIAMETER

DATA Source		QUALITY	SOURCE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/SLEMENT DESCRIPTION
NF	862	MAF	636	MOHTUO1	430	TUBING. UNROLL FROM COIL STARTS-WITH REACH TO ROLL OF TUBING INCLUDES-ALL MOTIONS NECESSARY TO UNROLL AND STRAIGHTEN THREE FEET OF TUBING FROM ROLL FNOS-WITH TUBING UNROLLED CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES IN DIAMETER
٧F	862	MAF	3440	MSUDPO1	253	DIE(THREADING). POSITION TO PIPE AND RETRACT. TOLEOD MODEL 999 OR SIMILAR PIPE MACHINE STARTS-WITH REACH TO CARRIAGE INCLUDES-ALL MOTIONS NECESSARY TO MOVE CARRIAGE 24 INCHES TO END OF PIPE AND POSITION PIPE TO DIE FOR THREADING; AND OPEN DIE AND RETRACT CARRIAGE ENDS-WITH RELEASE OF CARRIAGE
NF .	862	MAF	3432	MSUSA01	235	SPEED. ADJUST ON HEAVY DUTY PIPE MACHINE, THREE LEVERS STARTS-WITH TURN FROM MACHINE INCLUDES-ALL MOTIONS NECESSARY TO WALK ONE PACE TO SPEED LEVERS. CHECK SPEED CHART, MJVE EACH OF THREE LEVERS TO ADJUST SPEED. AND TURN FROM LEVERS ENDS-WITH WALK ONE PACE TO MACHINE
٩F	862	MAF	3433	MSUSCO1	133	SIZE(DIE), CHANGE ON HEAVY DUTY PIPE MACHINE STARTS-WITH LOOK TO MARK ON MACHINE INCLUDES-ALL MOTIONS NECESSARY TO GET LEVER AND POSITION TO CORRECT SETTING ENDS-WITH RELEASE LEVER
NF	862	MAF	3434	MSUWT01	418	WHEEL, TIGHTEN OR LOOSEN TO ADJUST REAR GUIDE CLAMPS. HEAVY OUTY PIPE MACHINE STARTS-WITH WALK FOUR PACES TO REAR OF MACHINE INCLUDES—ALL MOTIONS NECESSARY TO SIDESTEP TO WHEEL-TURN WHEEL TO TIGHTEN OR LOOSEN, AND SIDESTEP FROM WHEEL ENDS—MITH WALK FOUR PACES TO OPERATING POSITION CONDITIONS—RESISTANCE TO TURNING WHEEL UP TO 60 POUNDS ENW
NF .	862	MAF	2570/71	SSUDIOI	500	DIE(THREADING). INSTALL AND REMOVE.PIPE THREADING MACHINE STARTS-WITH BEND TO STORAGE SHELF UNDER
i						MACHINE INCLUDES-ALL MOTIONS NECESSARY TO IDENTIFY THE DESIRED DIE, REMOVE FROM SLOTTED SHELF, ARISE, POSITION DIE ON SPUOS, AND CLOSE LEVER TO SECURE DIE; AND OPEN LEVER, REMOVE DIE, BEND, AND PLACE DIE IN SLOT ON SHELF ENDS-WITH ARISE FROM BEND
NF	862	MAF	576	MTFPP01	- 194	PIPE,POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON HOIST) STARTS-WITH REACH TO END OF PIPE INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO FITTING,POSITION,GET PIPE WITH BOTH HANDS,AND TURN PIPE TO ENGAGE THREADS ENDS-WITH RELEASE OF PIPE
NF	362	MAF	634	MTFTA01	270	TUBING, ASSEMBLE TO THREADED FITTINGS (BOTH ENDS OF TUBING) STARTS-MITH REACH TO TUBE INCLUDES-ALL MOTIONS NECESSARY TO PICK UP TUBE, MOVE ONE END TO FITTING, HOLD, GET NUT AND ENGAGE ON THREADS, GET OTHER END OF TUBE, MOVE TO FITTING, AND ENGAGE NUT ON THREADS ENDS-WITH RELEASE OF TUBE CONDITIONS-DOES NOT INCLUDE TIME TO TURN NUT DOWN OR TO TIGHTEN NUT

DATA Source		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	611	MTLCCXX	VARIABLE	COVER(PIPE).CUT WITH HACK SAW STARTS-WITH ONE HAND ON PIPE COVER.SAW IN OTHER HAND POSITIONED FOR CUTTING INCLUDES-ALL MOTIONS NECESSARY TO SAW THROUGH PIPE COVER AND ASIDE SCRAP
					991	ENDS-WITH RELEASE OF SCRAP CASE OI PIPE COVER FOR PIPE DIAMETER TWO
					1235	INCHES OR LESS O2 PIPE COVER FOR PIPE DIAMETER TWO-SIX
					1540	INCHES O3 PIPE COVER FOR PIPE DIAMETER GREATER THAN SIX INCHES
NF	862	MAF	3268	MTLDBO1	617	DIE, BACK OFF THREADING TOOL, HAND-HELD PIPE DIE STARTS-WITH MOVE HANDLE FORWARD INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HANDLE FORWARD 10 TIMES, SET RATCHET 10 TIMES AND MOVE HANDLE BACK 10 TIMES ENDS-WITH MOVE HANDLE BACK CONDITIONS-RATCHET IN REVERSE-MATERIAL IN VISE AND HANDLE MOVED 36 INCHES EACH MOVE
4F	862 .	MAA	104	MTLDP01	116	DIE, POSITION TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE STARTS-WITH CUTTING TOOL IN HAND AND PIPE IN VISE
				.•		INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION TOOL TO PIPE, SEAT TOOL ON PIPE, APPLY PRESSURE AND MOVE HANDLE FORWARD, SET RATCHET, MOVE HANGLE WITH 30 POUNDS RESISTANCE ENDS-WITH MOVE HANDLE
NF .	862	MAF	536/537	МТГЛТХ Х	VARIABLE 673	JOINT(FLANGE), TIGHTEN OR LOOSEN, PRELIMINARY STARTS-WITH POSITION WRENCH ON FLANGE INCLUDES-ALL MOTIONS NECESSARY TO POSITION PINS IN HOLES IN FLANGE, TIGHTEN OR LUDSEN, MOVE WRENCH FROM HOLES, AND MOVE WRENCH BACK FOR NEXT TURN ENDS-WITH WRENCH IN HAND CASE 01 PIN WRENCH WITH DOUBLE PIN (APPROXIMATELY 4 REVOLUTIONS) 02 FACE TYPE SPANNER WRENCH
					,,,	(APPROXIMATELY 3 REVOLUTIONS)
ŊF	862	MAF	571	MTLPCOI	3830	PIPE,CUT WITH PIPE CUTTER STARTS-WITH CUTTER POSITIONED ON PIPE INCLUDES-ALL MOTIONS NECESSARY TO MAKE 18 REVOLUTIONS WITH CUTTER TO CUT PIPE ENDS-WITH PIPE SEPARATED
NF	862	MAF	627	MTLTBXX	VARIABLE	TUBING, BEND WITH TUBING BENDER STARTS-MITH GET BENDING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO POSITIUN OEVICE ON TUBING, MAKE BEND TO 90 DEGREES, AND REMOVE DEVICE ENDS-MITH ASIDE BENDING DEVICE CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER CASE 01 BEND TUBE WITH BENDING SPRING
NF .	862	MAF	620/621	MTLTCXX	498 VARTABLE	J2 BEND TUBE WITH TUBE BENDER TUBING, CUT OFF WITH HAND CUTTER STARTS—WITH REACH TO TUBING CUTTER INCLUDES—ALL MOTIONS NECESSARY TO POSITION CUTTER ON TUBE, ADJUST TO TUBE, CUT TUBE, BREAK OFF END OF TUBE, AND REMOVE CUTTER
					723 1528	ENDS-WITH ASIDE CUTTER CASE OI CUT TUBING TO 3/4 INCH DIAMETER 02 CUT TUBING 7/8 - 3 INCHES DIAMETER

DATA SOURCE		QUAL ITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
ŊF	862	мағ	632	STLTF01.	1284	TUBING, FLARE END STARTS-WITH GET FLARING BLOCK INCLUDES-ALL MOTIONS NECESSARY TO GPEN FLARING BLOCK, GET TUBE, PLACE FLARING BLOCK ON TUBE, TIGHTEN BLOCK ITWO NUTS), ATTACH FLARING TOOL, FLARE END OF TUBE, REMOVE FLARING TOOL, REMOVE BLOCK, AND ASIDE TUBE ENDS-WITH ASIDE FLARING BLOCK CONDITIONS—APPLICABLE TO COPPER TUBING 1/4-3
						INCHES OUTSIDE DIAMETER
NF	862	MAF	633	STLTROI	450	TUBING, REAM END WITH HAND REAMER STARTS-WITH GET REAMER INCLUDES-ALL MOTIONS NECESSARY TO POSITION REAMER TO TUBE, REAM TUBE, AND REMOVE REAMER ENDS-WITH ASIDE REAMER CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES CUTSIDE DIAMETER
ŊF	862	MUF	878	4VSV001	266	VISE(PIPE), OPEN OR CLOSE AND TIGHTEN STARTS-WITH REACH TO VISE INCLUDES-ALL MCTIONS NECESSARY TO PULL VISE HANDLE TO LOOSEN, SPIN HANDLE TO RELEASE VISE ROD, OPEN VISE ROD, AND OPEN UPPER JAW WAL POPEN HARLEASE OF UPPER JAW CONDITH RELEASE OF UPPER JAW RECUIRED TO CLOSE VISE, NO TIME ALLOWED FOR MOVING OR POSITIONING PIPE
٧F	863	MAF	3728	MOH SPO1	208	SHINGLE (ASBESTOS), POSITION TO WALL STARTS-WITH SHINGLE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GRASP SHINGLE WITH BOTH HANDS, MOVE SHINGLE TO WALL, ALIGN, PUSH NEW SHINGLE UNDER SHINGLE ON WALL, GET HAMMER FROM HAMMER LOOP, AND TAP SHINGLE IN PLACE ENDS-WITH HAMMER IN HAND CONDITION-APPLICABLE TO THE REPLACEMENT OF BROKEN SHINGLES
ŊF	863	MAF	247	MOH SRO 1	485	SHINGLE (BROKEN), REMOVE FROM WALL, ASBESTOS SHINGLE STARTS-WITH HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE HAMMER TO BREAK SHINGLE FOR REMOVAL AND REMOVE PIECES OF SHINGLE ENDS-WITH ASIDE PIECES OF SHINGLE
NF	863	MAF	243	MTL SCO1	146	SHINGLE, CUT WITH SHINGLE CUTTER, ASBESTOS SHINGLE STARTS-WITH REACH TO CUTTER HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE HANDLE TO OPEN CUTTER, ALIGN SHINGLE TO CUTTER, AND CUT SHINGLE ENDS-WITH COMPLETION OF CUT CONDITION-DOES NOT INCLUDE TIME TO GET AND ASIDE SHINGLE
NF	863	MAF	246	MTLSPXX	VARIABLE	SHINGLE, PUNCH HOLE WITH MANUAL PUNCH, ASBESTOS SHINGLE STARTS-WITH SHINGLE IN ONE HAND AND OTHER HAND ON PUNCH HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE HANDLE, POSITION SHINGLE TO PUNCH, LOWER HANDLE TO PUNCH HOLE, RAISE HANDLE, REMOVE SHINGLE, AND LOWER HANDLE ENDS-WITH SHINGLE IN HAND
					89 49	CASE 01 FIRST HOLF 02 EACH ADDITIONAL HOLE

DATA Source		YTIJAUÇ	SOURCE	DWMSTDP ELEMENT	TMU VALUF	OPERATION/ELEMENT DESCRIPTION
₹	864	WAF	180	SJPSC01	2233	SANDPAPER, CHANGE ON DRUM SANDER STARTS == ITH GET WRENCH INCLUDES = ALL MOTIONS NECESSARY TO KNEEL, UNLUCK PAPER GN DRUM, REMOVE AND ASIDE USED PAPER, PICK UP NEW PAPER, PLACE ONE END OF PAPER IN CRUM SLOT, FOLD PAPER AND ROTATE DRUM, INSERT SECOND END OF PAPER IN SLOT, CREASE PAPER WITH WRENCH, INSERT FILLER, LOCK PAPER ON DRUM WITH WRENCH, AND ARISE ENDS == WITH ASIDE WRENCH CONDITIONS = TIME TO OBTAIN SANDPAPER NUT INCLUDED
VF	864	MAF	86	40HFM01	162	FELT.MOVE ASIDE FOR ADHESIVE APPLICATION STARTS-WITH WALK THREE PACES TO END OF FELT INCLUDES-ALL MOTIONS NECESSARY TO STOUP.PICK UP END OF FELT.ARISE.AND WALK BACKWARD TO MOVE FELT ASIDE ENDS-WITH RELEASE OF FELT CONDITIONS-APPLICABLE TO INSTALLATION OF FELT ON WOOD FLOOR
ΥF	864	MAF	87	40HF402	263	FELT, MOVE INTO POSITION AFTER ADHESIVE APPLICATION STARTS-WITH STOOP TO PICK UP FELT INCLUDES-ALL MOTICNS NECESSARY TO PICK UP END OF FELT STRIP, WALK THREE PACES TO BRING FELT OVER ADHESIVE, KNEEL, POSITION FELT, AND PRESS FELT INTO PLACE ENDS-WITH ARISE FROM KNEELING POSITION CONDITION-TIME TO APPLY ADHESIVE NOT INCLUDED. APPLICABLE TO INSTALLATION OF FELT STRIP ON WOOD FLOOR
N F.	864	MAF	81	MTPSLO1	4 ,9	SANDER(DRUM), LOWER TO OR RAISE FROM FLOOR STARTS-WITH HANDS ON MACHINE HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RELEASE MACHINE HANDLE, GET RELEASE LEVER, MOVE LEVER TO RELEASE DRUM, LOWER DRUM, RELEASE LEVER, AND REACH TO MACHINE HANDLE ENDS-WITH HANDS ON MACHINE HANDLE
٧F	865	MAF	198	MNFPIOL	265	POINT(GLAZIER'S), INSTALL, PER POINT STARTS-WITH REACH TO GLAZIER'S POINT INCLUDES-ALL MOTIGNS NECESSARY TO GET POINT, POSITION POINT, GET CHISEL, PRESS POINT IN, ASIDE CHISEL, GET HAMMER, AND TAP POINT ENDS-WITH ASIDE HAMMER
ΝF	965	МДБ	105	MOHGPO1	98	GLASS, PLACE IN AND REMOVE FROM WINDOW FJR TRIAL INSTALLATION STARTS-WITH GLASS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO HOLD GLASS BY SIDES, POSITION BOTTOM CORNERS IN SASH, GRASP PANE NEAR TOP, MOVE PANE INTO SASH, AND REMOVE PANE FROM SASH ENDS-WITH PANE IN HAND CONDITION-APPLICABLE TO INSTALLATION OF WINDOW PANES 24x24-36x36 INCHES
NF	865	MAF	102	- MOHGPO2	138	GLASS.PLACE IN WINDOW FOR FINAL INSTALLATION STARTS-WITH GLASS IN HAND INCLUDES-ALL MOTICNS NECESSARY TO HOLO GLASS PANE BY SIDES.PLACE BOTTOM CORNERS IN SASH, GRASP PANE NEAR TOP, MOVE PANE INTO SASH, AND PRESS PANE IN PUTTY ENDS-WITH RELEASE OF GLASS CONDITION-APPLICABLE TO INSTALLATION JF WINDJW PANES 24X24-36X36 INCHES

DATA SOURCE		QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	866	MAF	3388	MNFFNOL	68	FELT(RODFING).NAIL WITH RODFING NAILS.PER NAIL STARTS-WITH NAIL AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION NAIL AND DRIVE WITH THREE HAMMER BLUWS ENDS-WITH HAMMER IN HAND
ONF	866	MA F	MOHAA 01	MOH 4 4 0 1	439	ASPHALT, APPLY FLOOD COAT FROM POUR CAN STARTS-WITH BEND TO FILLED POUR CAN INCLUDES-ALL MOTIONS NECESSARY TO PICK UP POUR CAN FILLED WITH ASPHALT, GET CAN WITH OTHER HAND, TILT CAN, AND POUR WITH SWEEPING MOTIONS WHILE SIDESTEPPING OVER AREA TO BE COATED ENDS-WITH ARISE FROM BEND, EMPTY CAN IN HAND CONDITIONS-FILLED CAN WEIGHS APPROXIMATELY 40 POUNDS.TIME TO WALK TO AND FROM ASPHALT CART
ΝF	866	MAF	41	MOHAE 01	271	NOT INCLUDED. ASPHALT, EMPTY FROM BUCKET TO "LO-BOY" CART STARTS-WITH REACH TO BUCKET SUSPENDED ON HOIST INCLUDES-ALL MOTIONS NECESSARY TO PULL BUCKET TO CART, RAISE AND TILT BUCKET TO EMPTY IN CART, LOWER BUCKET, AND PLACE BUCKET IN POSITION TO BE LOWERED ENDS-WITH RELEASE OF BUCKET CONDITIONS-PROCESS TIME TO POUR ASPHALT NOT
ONE	866	MAF	241	XXMAHOM	VARIABLE	INCLUDED.BUCKET IS NOT DISCONNECTED FROM HOIST ASPHALT, MOP ON SURFACE FROM WHEELED BUCKET STARTS-WITH GET MOP FROM BUCKET INCLUDES-ALL MOTIONS NECESSARY TO GET ASPHALT ON MOP, MOP ASPHALT ON ROOF, AND RETURN HOP TO BUCKET ENDS-WITH RELEASE OF MOP
					410 548	CASE 31 FIRST AREA 2.5 x 5 FEET 22 EACH ADDITIONAL AREA 2.5 x 5 FEET (REQUIRES MOVING WHEELED BUCKET TO NEXT AREA)
ONF	866	MAF	монвғо1	члнвго1	212	BUCKET, FILL WITH HOT ASPHALT FROM KETTLE STARTS-WITH BUCKET IN HAND INCLUDES-ALL MOTICNS NECESSARY TO BEND, PLACE BUCKET UNDER KETTLE SPOUT, OPEN SPOUT, CLOSE SPOUT, LIFT BUCKET FROM SPOUT, AND ARISE ENDS-WITH BUCKET OF ASPHALT IN HAND CONDITIONS-PROCESS TIME FOR BUCKET TO FILL NOT INCLUDED, FILLED BUCKET WEIGHS TO 40 POUNDS.
NF	866	MAF	35	МОНВЯО1	193	BUCKET(EMPTY), REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL STARTS-WITH FULL BUCKET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND, SET BUCKET BY HOIST, GET HOIST ROPE, CPEN HALYARD CLASP, MOVE CLASP OFF EMPTY BUCKET, PUT CLASP DA HANGLE OF FULL BUCKET, MOVE FULL BUCKET IN POSITION FOR HOISTING, AND MOVE FMPTY BUCKET ASTOE ENDS-WITH ARISE, EMPTY BUCKET IN HAND CONDITIONS-APPLICABLE TO HANDLING BUCKETS OF HOT ASPHALT OR SIMILAR WITH UP TO 45 POUNDS
DNF	866	МДР	89	MTLFCXX	VARTABLE	FELTIROFING), CUT WITH KNIFE, PER LINEAR FUOT STARTS-WITH WALK THO PACES TO FELT TO BE CUT INCLUDES-ALL MOTIONS NECESSARY TO KNEEL BY FELT, MOVE KNIFE TO FELT AND CUT ONE LINEAR FOOT ENDS-WITH ARISE CONDITIONS-ODES NOT INCLUDE TIME TO GET UR
					165 85	ASIDE KNIFE CASE OI FIRST LINEAR FOOT O2 FACH ADDITIONAL LINEAR FOOT(INCLUDES MOVE TO NEXT CUT AND CUT FELT)

PATA OCCUP- QUALITY SOURCE CODE ELEMENT VALUE OPERATION/ELEMENT DESCRIPTION

NF 866 MAF 110 MTLGSO1 261 GRAVEL, SPRFAD WITH SHOVEL, PER SHOVELFUL STARTS-WITH SHOVEL IN HANDS INCLUDES-ALL MOTIONS NECESSARY TO BEND, GET SHOVEL FUL OF GRAVEL FROM PILE, ARISE, TURN, AND SWING SHOVEL EIGHT TIMES BACK AND FORTH TO THINLY SPREAD GRAVEL ENDS-WITH SHOVEL IN HANDS CONDITIONS—APPLICABLE TO SPREADING GRAVEL OVER FLOOD COAT OF ASPHALT OR SIMILAR